### September 24, 2004

Phone: 310.615.6387 FAX: 310.615.6060

John Bishop, P.E. C/O California Regional Water Quality Control Board Los Angeles Region ATTN: Technical Support Unit 320 W 4<sup>th</sup> Street, Suite 200 Los Angeles, CA 90013

Subject: Submittal of Application for Renewal of NPDES Permit

El Segundo Power LLC

Attached please find the Application for the Renewal of the NPDES Permit for El Segundo Power, LLC. This Application is being submitted early so that it may be deemed complete in a timely manner. The submittal of the Application for Renewal is in compliance with the requirements as set forth in the NPDES Permit Number CA0001147, California Regional Water Quality Control Board, Los Angeles Region Order Number 00-084, covering wastes discharged at El Segundo Power LLC. Please refer this to compliance file CI 4667.

Analyses were conducted at a laboratory certified for such analyses by the State Department of Health Service or approved by the Executive Officer and in accordance with current EPA guideline procedures or as specified in the Monitoring Program.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. "I am aware that there are significant penalties for submitting false information, including the possibility, of a fine and imprisonment for knowing violations."

If you should have any questions regarding this report please contact Alex Sanchez at 310.615.6351.

Executed on the 24th day of September 2004, at the El Segundo Generating Station.

Sincerely,

El Segundo Power, LLC By: NRG El Segundo Operations Inc., It's Authorized Agent

Bv:

Audun Aaberg Regional Manager

**ENCL: Enclosed Attachments** 

File Number: 1 A 6 1

# APPLICATION FOR RENEWAL OF NPDES PERMIT FOR THE EL SEGUNDO POWER, LLC

El Segundo Generating Station (Permit No. CA0001147)

Submitted
To the
Los Angeles Regional Water Quality Control Board
September 24, 2004

# Table of Contents\_

Section 1	Form 200 and Contributions Disclosure Statement
Section 2	EPA Form 1 and Site Maps
Section 3	EPA Form 2C and Attachment 1 (Section II.A and II.B)
Section 4	Appendix A to EPA Form 2C
Section 5	Appendix B to EPA Form 2C
Section 6	Appendix C to EPA Form 2C
Section 7	Appendix D to EPA Form 2C
Section 8	Toxicity Evaluation Report
Section 9	Regional Water Quality Control Board Correspondence
Section 10	Request For Schedule to Submit Information For Rule 316 (b) Phase II
	Compliance

Los Angeles Regional Water Quality Control Board Order 00-084 (Waste Discharge Requirements for El Segundo Power, LLC El Segundo Generating Station) expires on May 10, 2005. This application is being submitted for the renewal of the permit.

The following California and Federal application forms are enclosed:

- Signatory and Certification Statement to NPDES Permit Applications
- SWRCB Contributions Disclosure Statement
- SWRCB Form 200
- EPA Form 1
- EPA Form 2C

These applications contain the following Attachments and Appendices:

#### **SWRCB FORM 200:**

Section VI. - Characterization Information and Site Map

Attached to this application are the following U.S. EPA applications:

- Form 1
- Form 2C

These forms and their attachments provide a complete characterization of this facility's NPDES discharge, and include:

- Water mass balance schematic
- SWPPP
- Site map

#### **SWRCB Form 1:**

- > Attachments:
  - Figure 1: Location Map
  - Figure 2: Hazardous Materials Locations
  - Figure 3: El Segundo Power Generating Station Map

### **EPA Form 2C**

- ➤ Attachment 1 —Schematic of Water Flow
- > Appendices:
  - Description of El Segundo Generating Station's Facilities, Operations and • A – Discharges, including:
    - Plant & Operations Description
    - Historical Monitoring Data including 24-hour Composite Sampling Results
    - Requested Changes to the Permit
  - В Application Sampling and Analysis Laboratory Report
  - **C** Business Owner/Operation Identification Manual
  - Storm Water Pollution Prevention Plan **D** –

# Section 1.0 Form 200 and Contributions Disclosure Statement

#### CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

# State of California



# Regional Water Quality Control Board APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



A. Facility:	Į.	FACILITY	INFORMATION	_
El Segundo Power, LLC				
addeeds: 301 Vista Del Har		• •		
Gray El Segundo		County: J.A	Garan CA	ssy code: 90245
Contact Passon: Audum Amburg			Telephon You	онт. 310-615 <u>-634</u> 2
B. Facility Owner:				
El Segundo Power, LLC		•		Demar Type (Chack Dow) 1
301 Vista Del Mar				1. Operational 4. Pertocoldy Agency
<sup>लाक:</sup> El Segundo		State: CA	تان صفات 90245	5. Olbar:
Contact Pacacon Audum Aaberg		•	телерікаю <b>На</b> 310—615—61	
C. Facility Operator (The agency or loss	inesa, nut	the person):	•	
NRG El Segundo Operatio	ns Inc			Describer Type (Check Due)  1 Individual
Address: 301 Vista Del Mar	•			3.   Roverzonatel &   Pertonahúy   Agency
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Crotant Ferson: Audun Aaberg			tolephops same	310-615-6342
B. Owner of the Land:				
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F. Address Where Legal Notice May	y Be Ser	ved:	•	
eddest⊩ 301 Vista Del Mar				
El Segundo		Stratas CA	- 2-sp Code: 903	245
Contact terson: Audun Asberg			Telophone Husi	110-615-63 <u>42</u>
f. Billing Address:				
Same as facility owne	r			
City:		: State:	Zig Coder	
Contact Person.			Zolophano Hust	

#### CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



# State of California Regional Water Quality Control Board

## APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



## II. TYPE OF DISCHARGE

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heck all that apply:  Domestic/Municipal Wastewater Treatment and Disposal Cooling Water Mining Waste File Wastewater Reclamation Other, please describe:	Animal Waste Solids Land Treatment Unit Dredge Material Disposal Surface Impoundment Industrial Process Wastewater	□ Animal or Aquacultural Wastewater     □ Biosolids/Residual     □ Hazaphous Waste (see instructions)     □ Londfill (see instructions)     ③ Storm Water
III. escribe the physical becation of the f	LOCATION OF THE FA	CILITY
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#### CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



# State of California Regional Water Quality Control Board.

### APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



## VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

# Actach additional shoots to captain any responses which need clarification. List attachments with titles and dutes below: Attachment 1: Form 200 Sect.jon VI. (Characterization Information and Site Map)

VII. OTHER

You will be notified by a representative of the ICVQCB within 30 days of receipt of your application. The natice will state if your application is complete or if there is additional later mutan you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

#### VIII. CERTIFICATION

direction and supervision in socurdance with a system designed to information submitted. Based on my inquiry of the person or past pathering the information, the information submitted is, to the best	attachments and supplemental information, were prepared under my masure that qualified personnel property gathered and evaluated the cons who manage the system, or those persons directly responsible for of my knowledge and belief, true, accurate, and considere. I am aware armation, including the possibility of fine and imprisonment."
Frint Name: Audito Anberg Signature: AUDIIN AABERG	Tule: perional Plants Manager, El Segund Power, L.E.C. Date:
RECIONAL PLANT MANAGER	

El Segundo Power, LLC by:NRG El Segundo Operations, Inc. It's Authorized Agent (310) 529-3257

FOR OFFICE USE ONLY				<del>-</del>
Date Form 104 Received:	Letter to Discharger.	Fee Amagent Received:	Cliectic #1:	
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# Section 2.0 EPA Form 1 and Site Maps

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sch to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the lifty, the location of each of its hazardous waste treatment, storage, or disposal facilities, I each well where it injects tillds underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise untermedis.

To generate electricity.

Inity under penalty of law that I have personally examined and our familiar with the information submitted in this application and at attachments and that, led on my inquity of those persons immediately responsible for obtaining the information contained in ten explication, I believe that the information is true, under and complete. I am aware that there are significant penalties for submitting takes information, including the possibility of fine and impresonment.

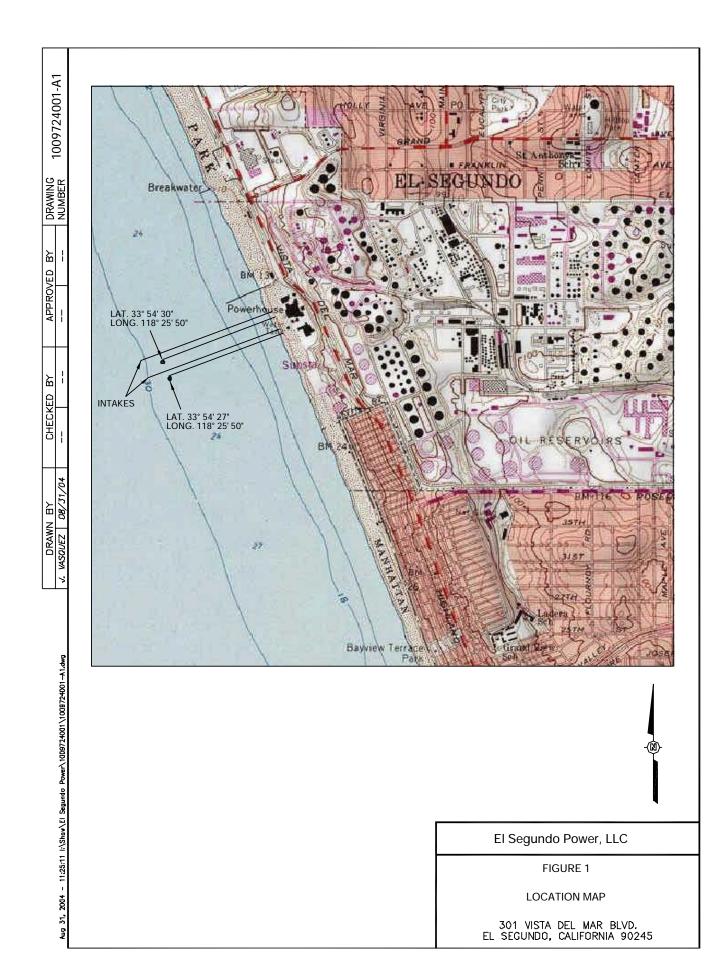
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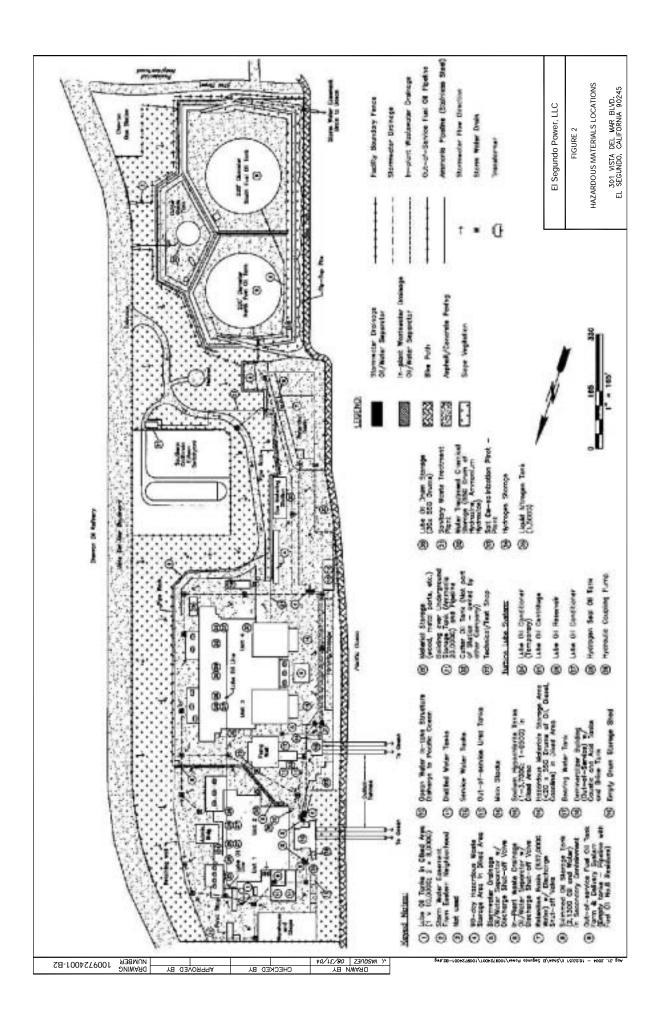
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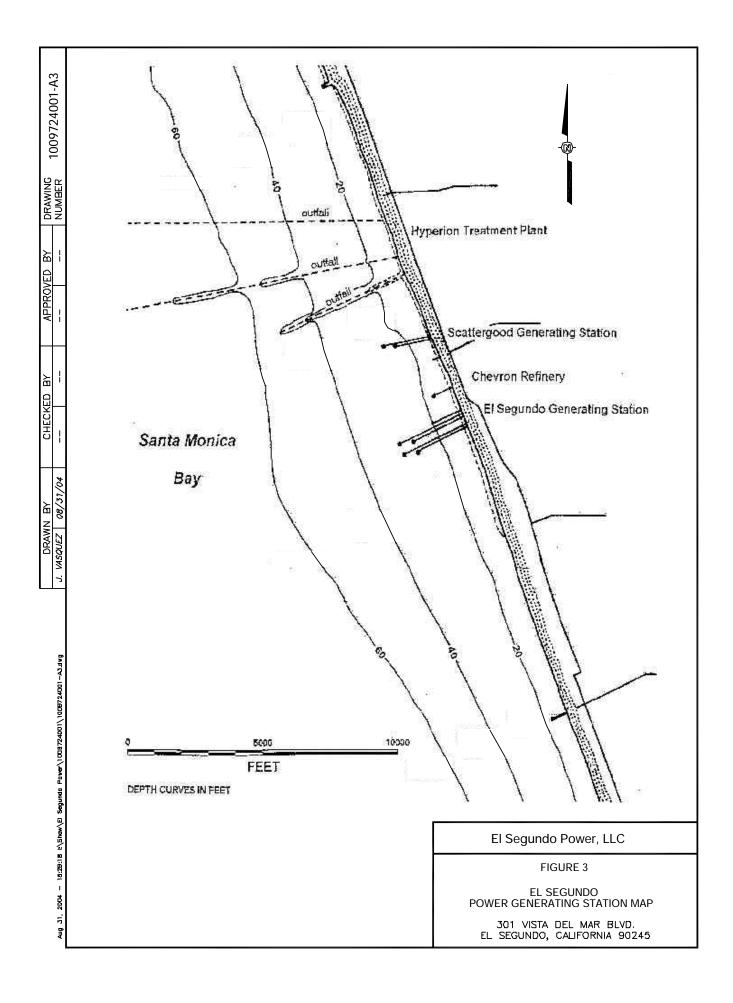
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(1 Segundo Power, LLC 191 NRG El Segundo Operations, Enc.

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# Section 3.0 EPA Form 2C and Attachment 1

#### CAR000036848

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### CAR000036848

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	Surremy Tree means Project	0.55% DECEMBER	Acrobic Digestion & Ocean Discharge	5-A
	Storm Draws	Negligible	Oil Removal & Ocean Discharge	1-83
	Units 1822 Bluder Blowdown	ILQ13 MQD	Ocean Discharge	4-13
J2	Corntenses Conding	398 MGD	Ocean Discharge	4-13
	Sainfacy Treatment Wastes	1,00T MÜÜM 100,11	Aerobic Digestion & Ocean Discharge	5-A
	Storm Deatits	Neghgible	Oil Removal & Ocean Discharge	UH
	Units I & 2 Floor Drains	0.03 MGD	Retention & Ocean Discharge	4-B
	Units 3 & 4 14 ora Drains	U.07 MCD	Oil Removal, Retention, & Ocean, Discharge	I-H
	Units 3 & 4 Bailer Blowdown	0.013 MGD	Retention & Ocean Discharge	4 B
	Pireside & Air Preheater Wash	0.6 MGD	Temporary Storage, Retention. & Ocean Discharge	4 B
	Units 1 4 Metal Chemical Cleaning Wastes	0,06 MGD	Temporary Storage, Lime Precipitation, Retention & Ocean Discharge	4-B
	Fuel Pipeline Hydro-static Testing Water	0.8 MGD	Retention & Ocean Discharge	4 B
	Units 1 & 2 Condensers git pumps	0.015 MGD	Retention & Ocean Disclarge	4-B
	Chemical Labotatory Drams	Negligible	Retention & Ocean Discharge	4-B
	Units 1& 2 Oil waste sump	10.045 MGD	Oil Removal, Retention, & Ocean Discharge	1-H
	Utats 3 & 4 Oil waste sump	9.115 MGD	Oil Removal, Retention, & Ocean Descharge	1
	Units 3 & 4 Heat Exchanger	7.6 MGD	Gecan Discharge	4-11
	Desalitation Pilot Plant	Negligible	Intake Condisit 2	1-13

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generated by P.A.S.S. CAR000036848 Emiliana Contra gase Albadapēja sarak Belara arī 🔞 网络自己网络黄斑白色 经交换 化二苯 化砂壁 化甲基磺胺二苯 . - - - -0.08 Units 1 & 2 Boiler Blowdown 0.01 0.04 13.000230,000 12 Units 364 Boiler Blowdown\* ez militar kilonek ..... and a residual for a great from a long triple. The long is thought with the long at the effect of the effect of X ..... garana ay 10 kabupatèn gabuma kula gabangangan kalikanan ay alah baran kabupatèn Pada ak Malikati. range and the comparison from the property of the property of the comparison of the

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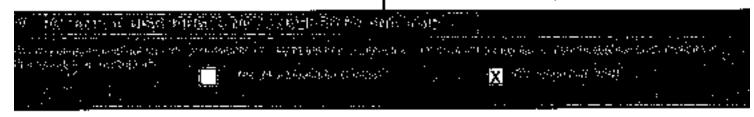
rics 1-4 **Fifeside** & Air Prehester Washes at a long term flow rate average of 0.6 MGD and a fotong term average volume of 600,000 gallows. See Appendix A for further explanation. The 1-4 Ketal Chemical Cleaning wastes at a long term flow rate average of 0.00MGD and a total term average volume of 60,000 gallows. See Appendix A for further explanation. Tell Pipeline Hydro-Static Testing at a long term flow rate average of 0.8 MGD and a long term reage dand maximum volume of 800,000 gallows. See appendix A for further explanation.

#### CAR000036848

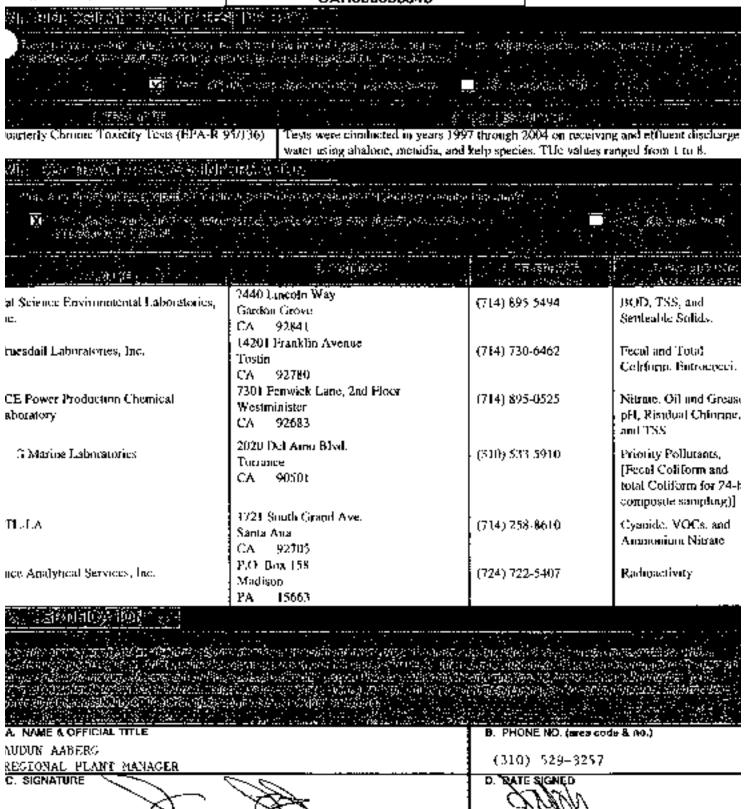
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Pipe Ensulation (The plant employs procedures to prevent the releas of asbestos to the environment)



#### CAR000036848



El Segundo Power, LLC

: NAG El Segundo Operations, Inc.

.c's Authorized agent

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 Worter Landary 1 to March 31, 2004

# NPDES PERMIT (CA0001147) RENEWAL APPLICATION (9/20/04) EPA NPDES Application Form 2C - Section V, Part B EL SEGUNDO GENERATION STATION

EPA TO No. CAR 000036848

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# EL SEGUNDO GENERATION STATION NPDES PERMIT (CA0001147) RENEWAL APPLICATION (9/20/04) EPA NPDES Application Form 2C - Section V, Pert B

# EPA ID No. CAR 000035848

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# EL SEQUNDO CENERATION STATION NPDES PERMIT (CACCOLLA?) RENEWAL APPLICATION (92004) EPA NPDES Application Form 2C - Section V. Part C

EPA ID No GAR 000036848

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# EL SEQUNDO GENERATION STATION NPIDES PERMIT (CADODITAT) REMEMAL APPLICATION (92904) EPA NPIDES Application Form 2C - Section V, Parl C

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# EL SEGUNDO GENERATION STATION NPDES PERMIT (CADOU147) RENEWAL APPLICATION (92004) EPA NPDES Application Poem AC - Section Y, Part C

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# NPDES PERMIT (CADDO) 47: RENEWAL APPLICATION (9:20014) EPA NPDES Application Form 2C - Section V. Psin C EL SEGUNDO CENERATION STATION

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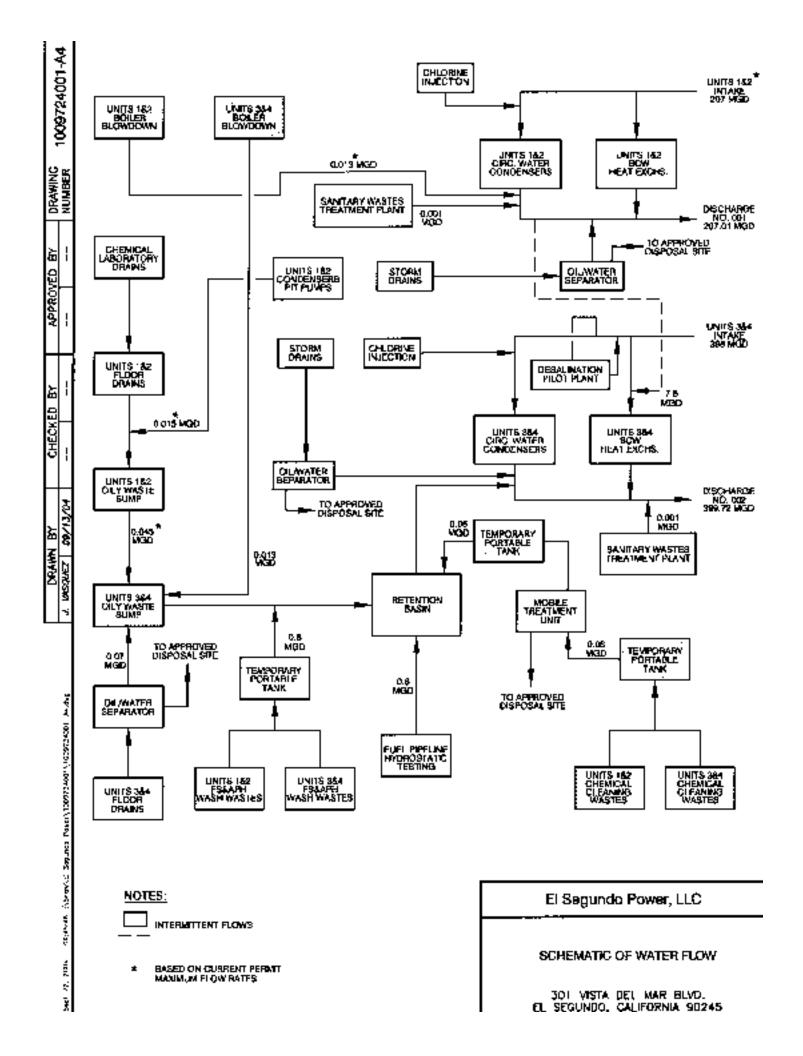
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## Further explanation of Item II C.

<u>Outfall No.</u>	Operation Contributing Flow	Remarks
001	Units 1&2 Boiler Blowdown	This operation is necessary to control the build-up of solids in the steam cycle. Units 1&2 bodor blowdown is discharged approximately 3 times per week when the units are running, which is approximately 8 months of the year. The duration of the blowdown is approximately one hour per unit. This operation is necessary to control the build-up of solids in the steam cycle. Units 3&4 boiler blowdown.
002	Units 3&4 Boiler Blowdown	is discharged approximately once per week when the units are running, which is all year. The duration of the blowdown is
		approximately one bour per unit
002	Units 1-4 Fireside and Air Preheaser Washes	These operations last approximately sixteen hours, and are usually done concurrently one unit at a time, about four times per year. At this time, the facility is not performing these operations, but plans to do so in the future.
002	Units 1-4 Metal Chemical Cleaning Wastes	These operations occur approximately once every two years per unit. The duration of the discharge is approximately thirty-six to forty-eight hours.
002	Fuel Pipeline Hydro-Static Testing Water	This operation occurs infrequently and lasts for approximately four hours.

\*Note: Fuel Pipeline Hydro-Static Testing Water is a waste generated by Southern California Edison on the site.



Section 4.0 EPA Form 2C Appendix A

## EPA Form 2C Plant & Operations Description

# NPDES PERMIT RENEWAL APPLICATION NPDES NO. CA0001147 Facility Operation Description for the El Segundo Power LLC, El Segundo Generating Station, Los Angeles County

# 1.0 Facility Description

The El Segundo Power LLC, El Segundo Generating Station is located at 301 Vista Del Mar Boulevard, in the City of El Segundo, California, adjacent to the Santa Monica bay on the Pacific Ocean.

The El Segundo Generating Station has been owned by El Segundo Power LLC since April 1998. NRG El Segundo Operations Inc. has operated El Segundo Generating Station since April 2000. The power plant was previously owned by Southern California Edison (SCE).

The El Segundo Generating Station (El Segundo) consists of four steam electric generating units (Units 1 through 4) with a design capacity of 1,020 megawatts. The Plant discharges up to 607 million gallons per day (MGD) of wastes consisting of once-through cooling water, pretreated chemical metal cleaning wastes, stormwater, non-chemical metal cleaning wastes, low volume inplant wastes, and treated sanitary wastes into the Pacific Ocean (Santa Monica Bay), a water of the United States.

An application for a permit to replace Units 1 and 2 with new generating units is pending approval by the California Energy Commission. Though this application was filed in December of 2000 and accepted as adequate February of 2001, the "12 month" permit process is still being completed more than three and half years later. Though the air permit for the operation of Units 1 and 2 was allowed to expire as of January 1, 2003, the cooling system that supports intake #1 has not been removed from service. Likewise, Units 1 and 2 are still present and capable of operation. A final decision approving the project is expected later in 2004.

Until an acceptable permit is obtained and the new units are constructed, Units 1 and 2 remain as potential future electricity generation sources. The units may be removed in the near timeframe, however, to make way for new units 5, 6, and 7. Fortunately, the proposed repowering will not alter the parameters of intake system #1 and will, if anything, reduce the quantity of heat discharged through outfall #1. The new project will not change the character of the plant as "existing facility" and thus this NPDES permit application is not affected by the proposed repowering of units 1 and 2 and the new units will be able to operate without application for a new NPDES permit for a new source. Section 9 of this document contains a letter from the Los Angeles Regional Water Quality Control Board (Regional Board) regarding the El Segundo Power redevelopment project and ability to re-power under the existing NPDES permit (Regional Board later, May 14, 2001).

This permit application utilizes the values, parameters, and characteristics for the existing Units 1 and 2. If and when Units 1 and 2 are replaced, El Segundo Power, LLC will apply to the Board for administrative changes to the then-in-effect NPDES permit to correctly identify the new units and their operation.

The El Segundo Generating Station wastes are discharged through two outfalls, Discharge Serial Nos. 001 and 002, described as follows:

a. Discharge Serial No. 001: Latitude: 33° 54' 30"

(Units 1 and 2) Longitude: -118° 25' 50"

Discharge Serial No. 001 consists of one conduit, approximately 2,600 feet long that terminates at a depth of 20 feet Mean Lower Low Water (MLLW).

b. Discharge Serial No. 002: Latitude: 33° 54' 27"

(Units 3 and 4) Longitude: -118° 25' 50"

Discharge Serial No. 002 consists of one conduit that extends approximately 2,600 feet long that terminates at a depth of 20 feet MLLW.

The cooling water intake structure consists of two conduits (Nos. 003 and 004), each providing cooling water for two generating units and extends about 2,100 feet offshore drawing water from a depth of 20 feet MLLW.

Marine fouling of the cooling water conduits (intake and discharge) is controlled by temporarily recirculating (thus increasing the temperature) and reversing the flow of the once-through cooling water alternately in each offshore conduit (i.e., the discharge point becomes the intake point, and the intake point becomes the discharge point). This procedure (referred to as "heat treatment") is typically conducted every six (6) weeks and lasts for about six hours per conduit with the highest temperature lasting for one hour during gate adjustment. During the heat treatment, the temperature of the water discharged through the intake conduit must be raised to  $105^{0}F$  for one hour to remove the fouling organisms. The discharge limit of the effluent is  $125^{0}F$ . During gate adjustments, the discharge temperature is allowed limited to reach  $135^{0}F$  for no more than 30 minutes. Gate adjustments control the temperature of the water recirculated in the intake and discharge points during heat treatment. As a result of heat treatments, calcareous shell debris accumulates in the intake structure. This shell debris is physically removed and disposed in the Ocean as required.

The chemical metal cleaning wastes from all the units are collected in portable storage tanks and treated to remove metals through a contractor-owned mobile lime treatment unit. The contractor maintains a tiered treatment unit (TTU) permit from the Department of Toxic Substances Control that allows for treatment of hazardous wastes on-site. The chemical metal cleaning operations occur approximately once every five years per generating Unit and discharge occurs after the metal cleaning wastes have been treated. The duration of discharge is normally approximately thirty-six to forty-eight hours per generating unit. The treated metal cleaning wastes and other low volume wastes are stored in temporary tanks before the wastes are decanted to the retention basin prior to discharge to the Pacific Ocean through Discharge Serial No. 002. Non-metal cleaning from boiler washes and air pre-heater washes are also stored in temporary tanks before the wastes are decanted to the retention basin.

Floor drain wastes are passed through oil water separators before going to the retention basin. Wastes from the retention basin are commingled with Discharge Serial No. 002.

Storm water runoff is passed through oil/water separators before combining with the cooling water and treated sanitary wastes prior to discharge to the Pacific Ocean through Discharge Serial Nos. 001 and 002. However, stormwater runoff from upslope of the facility flows into an easement conveyance then to the beach without commingling with the industrial activity associated run-off.

Sanitary wastes are treated in two aerobic digestion treatment package units (Wastewater Treatment Plant Nos. 1 and 2) prior to discharge through Discharge Serial Nos. 001 and 002, respectively.

Residues in the basins, pretreatment wastes, and oil sludges from oil/water separators are periodically hauled away to legal disposal sites.

To control biological growths (defouling), the condenser tubes (arranged in two banks per generating unit, each bank is called condenser half) are treated by intermittently and mechanically injecting chlorine (in the form of sodium hypochlorite), for a maximum of two (2) hours per generating unit per day, into the cooling water stream.

A water flow diagram is identified as "Schematic of Water Flow" within Attachment 1 to EPA Form 2C. This figure shows maximum flowrate of each waste stream.

# 2.0 Discharge Description

The El Segundo Generating Station has the following wastewater discharges to the ocean:

- a. Once-Through (Non-contact) Cooling Water
- b. Low Volume Wastes
- c. Secondary Treated Sanitary Wastes

The wastewater discharge flow summary of the El Segundo Generating Station is provided in Table 1 below:

TABLE 1
Outfalls and Nature of Wastes Discharged

	Oditalio di di Hataro di Habto	5 2 10 01 1a. g 0 a	
Discharge Serial No.		001	002
Generating Units Serv	ed	1 & 2	3 & 4
Diameter		10 feet	11 feet
Distance Offshore (fee	t)	2,600	2,600
	et below Mean Lower Low Water)	20	20
Latitude		33° 54′ 30″	33° 54′ 27″
Longitude		-118° 25′ 50″	-118° 25′ 50″
Maximum	Winter (October to April)	79	86
Temperature, (°F)	Summer (May to September)	88	100
	Heat Treatment/Gate Adjustment	125/135	125/135
Waste Streams	Once-through Cooling Water	207.00	398.00
(maximum volume, MGD)	Chemical Metal Cleaning Wastes <sup>[1]</sup> (Units 1 to 4)		0.06
	Low Volume Wastes[1]		
	Floor Drain Wastes		0.115
	Boiler Blowdown	0.013 (Units 1& 2)	0.013 (Units 3&4)
	Fireside and Air Preheater Wastes		0.6
	Fuel Pipeline Hydrostatic Test Water		0.8
	Condenser Sump		0.015
	Storm Water Runoff	Negligible	Negligible
	Chemical Laboratory Drains		Negligible
	Secondary Treated Sanitary Wastes	0.001 (Plant 1)	0.001 (Plant 2)
	Units 3 & 4 Heat Exchangers  Desalination Pilot Plant		7.6 <sup>[2]</sup>
Total Maximum Flow,		207.01	Negligible <sup>[3]</sup> 399.59

<sup>[1]</sup> These flows are intermittent.

<sup>[2]</sup> For Intake and Outfall detail refer to Section 3, Attachment 1-Schematic of Water Flow.

# 3.0 DESCRIPTION OF DESALINATION PILOT PLANT

In May of 2002, the California Regional Water Quality Control Board, Los Angeles Region, approved the installation and operation of the seawater desalination pilot plant as proposed by West Basin Municipal Water District (West Basin). The existing NPDES permit has allowances for seawater desalination. In May 2002, West Basin initiated seawater desalination operations and testing in accordance with the conditions set forth by the Regional Board in a letter dated May 16, 2002.

The Regional Board approved the use of 30 gallons per minute (gpm) (.043 MGD) of seawater from the cooling water intake to microfiltration and reverse osmosis units. The seawater is separated into two components; pure water and waste brine. Each of the separated streams constitutes 50% of the intake flow (15 gpm of pure water and 15 gpm of brine). The brine and reverse osmosis permeate is returned into the power plant's cooling water intake. Chemicals such as sodium hypochlorite, ammonium hypochlorite, and antiscalant are added to the influent water to enhance the removal efficiency of dissolved solids during desalination. The total amount of chemicals added have very little impact to the cooling water flow and the Desalination Pilot Plant operation does not constitute a material change to the power plant's outfall. Therefore, in accordance with the letter set forth by the Regional Board dated May 16, 2002, the NPDES permit did not need to be reopened and a separate NPDES permit was not required for the Desalination Pilot Plant.

In addition to the Desalination Pilot Plant, a pipe loop corrosion study associated with the seawater from the Desalination Pilot Plant was approved by the Regional Board on April 12, 2004. In accordance with the conditions set forth by the Regional Board, this study is designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel and brass) and to demonstrate that seawater-derived potable water is stable, non-corrosive, and does not present any health risks.

Three blends of water are tested:

- 100% stabilized RO permeate
- 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water
- 100% MWD water

Each water source and metal type is tested in triplicate which results in 27 pipe loops, each with an approximate volume of one liter of water. The pipe loops are designed to take pre-treated water from the existing micro-filtration (MF) pilot plant; therefore requiring no additional pumping of raw seawater. In addition, the second RO pilot plant is sized so that it produces enough water to supply the pipe loops. The pipe loops operate on a cycle intended to simulate household flow patterns with the water stagnated in the pipes for 23 hours and flowing at 1 gallon per minute (gpm) for 1 hour. Due to the lack of enough water supply by the MF and RO units for simultaneous operation of all the pipe loops, the maximum flow rate and discharge from the pipe loops is approximately 9 gpm with staggered operation of the individual pipe loops.

The total flow from the study is approximately 1,620 gallons per day. Since low concentrations of metals will be observed in the pipe loop discharge, the water is sent to the retention basin at the El Segundo Generating Station prior to being discharged with the cooling water. However, the RO permeate is conditioned to mitigate metal release and produce water that is suitable for potable use.

The quantity of loop study water discharged is relatively small (the minimum condenser coolant flow is approximately 100 million gallons per day, contributing 0.000162%) and the leachate containing regulated metals, has negligible to undetectable contribution to the metals discharge of the power plant. Accordingly, the Regional Board approved the study and determined that the operation will not constitute a material change for the NPDES permit issued to El Segundo Generating Station (letter dated April 12, 2004). Permission has been granted by the Regional Board to conduct the study for a period of one year (expiration date: May 31, 2005).

Furthermore, in addition to the above study, on August 6, 2004, West Basin submitted a request to the Regional Board to continue desalination pilot operation at the El Segundo Generating Station on warm water from the power plant's effluent water (Conduit 2) rather than the current intake water source. The purpose of this request was to evaluate the expected energy savings and equipment footprint reduction from operation on warm water. A second pre-treatment unit employing ultra- filtration, requiring an increased intake flow rate of up to 80 gpm, was also proposed to be brought on site for comparison to the microfiltration technology. All of these study parameters are estimated to extend through December 2006; therefore, per this letter, West Basin requested the Regional Board's permission to operate with the additional flow needs in the requested time extension.

# 4.0 Section 316(b) of the Clean Water Act

Section 316(b) of the Federal Clean Water Act (Clean Water Act) requires that the location, design, construction, and capacity of cooling water intake structures reflect the best technology available for minimizing adverse environmental impacts.

In accordance with Federal and State guidelines, Southern California Edison, (SCE) conducted a study (completed in 1982) that addressed the important ecological and engineering factors specified in Section 316(b) guidelines. The study demonstrated that the ecological impacts of the intake system were of an environmentally acceptable order, and provided sufficient evidence that no modification for the location, design, construction or capacity of the existing systems was required. The design, construction, and operation of the intake structure was then considered Best Available Technology Economically Achievable (BAT) as required by Section 316(b) of the Clean Water Act (CWA). A finding to this effect is part of the Order 00-0084.

On July 9, 2004, The U.S. Environmental Protection Agency (USEPA) published its final rule prescribing how "existing facilities" may comply with Section 316(b) of the Clean Water Act. 69 Fed. Reg. 41575, 41683 (July 9, 2004). For most existing faculties, this rule will require a large amount of data to establish "best technology available" for the facility's intake structure and to demonstrate compliance with the rule.

El Segundo Generating Station (ESGS) is a "Phase II existing facility" within the meaning of 40 CFR 125.91. As such, it is required to comply with the Phase II rule, and in particular to submit the studies and information required by 40 CFR 125.95.

Section 125.95 of the new rule requires detailed studies and other information to establish what intake structure technology or other measures will be used to comply with the rule. Accordingly, a detailed request for schedule to submit information to comply with the Phase II 316(b) Rule (40 CFR Part 125 Subpart J) was submitted to the Board separately from this application and is also attached in Section 10.0 of this document.

# EPA Form 2C Historical Monitoring Data

(H) OUTFALL PRIORITY POI	LLUTANTS-80	001			
Constituent & Date of Sample		Солео	Units	Frequency of Analysis	
Constituent & Date of Sample		V.Calcet	L L	Offices	Amatysis
Date	5/13/04	5/19/04	6/16/04		
Antimony	0.12	0.135	T		Quarterly
Arsenia	1.06	1.06			Quarterly
Barium				Nø/I	Quarterly
Beryllium	ND	0.016			Quarterly
Cadmium	0.034	ND		ng/l	Quarterly
Chronium (Total)	0.4	2.08	1 <del></del>	111/1	Quarterly
Chromium, Hexavalent				ນຍ/ໄ	Quarterly
Cobalt				ug/l	Quarterly
Copper	0.843	0.945		บยู/ไ	Quarterly
Lead	0.347	0.063		ng/l	Quarterly
Mercury	ND	ND		Light .	Quarterly
Molybdenum				1/8/1	Quarterly
Nickel	0.314	0.387		Light	Quarterly
Selections	0.046	0.031	<del>        </del>	ບຊາ	Quarterly
Silver	ND	ND		UgS	Quarterly
Thallium	0.01	0 0 <b>1</b> 4		ug/.	Quarterly
Vanudium				mg/l	Quarterly
Zinc	3.05	3.36		l\ga l	Quarterly
J.1,1,2-Tetrachizoethane			ND	ug/l	Quarterly
1.1,1-Trichloroethane			NO.	ug/l	Quarterly
1,1,2,2-Tetrachirochane			ND	ug/l	Quarterly
£,1,2-Trickloroethane				ug/l	Quarterly
1,1_Dichtoreethane			SD	ຫຍູ/ໄ	Quarterly
1,1-Oschloropropane			NĐ	ug/l	Quarterly
1,2,3-Trichlorebenzene				ug/l	Quarterly
1,2,3-Triehloropropane			}	lag/l	Quarterly
1,2,4-Trieblorobenzene			ND	ng/l	Quarterly
1,2,4-Trimethylhenzene				ng/l	Quarterly
1,2-Dibromocthane		·		ug/l	Quarterly
1,2-Dibromo-3-Chloropropane				l/gu	Quarterly
1,2 Dichlorobenzene				ng/l	Quarterly
1,2-Dichlorobezene			ND	ng/l	Quarterly
1,2-Dichloroethane				ng/l	Quarterly
1,2-Diphenylhydrazine			ND	ne/l	Quarterly
1,2-Dichloropcopane				ng/l	Quarterly
J.3.5-Trimethylbenzene				ոլը	Quarterly
1.3-Dichlorobeozene			ND	ng/l	Quarterly
1.4-Dichlorobenezene			ND	ng/l	Quancily
1.2-Dibromo-3-Chloropropane				ng/I	Quarterly
1-Methytphenandureneene				ng/1	Quarterly
1-Methylnaphthalone				ng/I	Quarterly
2,2-Dichlotopropane				ug/I	Quarterly
2,3,5-Trimethylnuphtalene				(וֹפֵּח	Quarterly

II) OUTFALL PRIORITY PO	LLUTANTS-#	001			
Constituent & Date of Sample		Conce	Units	Frequency of Analysis	
Date	5/13/04	5/19/04	6/16/04		
2,3,7,8 TCDD			ND	ng/l	Quarterly
2,4,5-Trichlorophenol				пуЛ	Quarterly
2,4,6-Trichtorophenol			.ND	ng/l	Quartealy
2,4" DOD			ND.	ng/L	Quarterly
2,4°-DDE			ND	ng/L	Quarterly
2,4'-DDT			ND)	ng/l	Quarterly
2,4-Dichlorophenol			ND	ng/L	Quarterly
2,4-Dimethylphenal			ND	ngA	Quarterly
2,4-Diniirrophenol			ND	ngt	Quarterly
2,4-Dinitrotoulene			ND	ng/l	Quarterly
2.6 Dimethylnapthalene				ng/l	Quarterly
2,6 Dinitrotordene	•		ND	ng/l	Quarterly
2-Butanone				սց/Լ	Quarterly
2-Chloroethyl Vinyl Ether			ND	ug/l	Quarterly
2-Chloronapthalene			ND	ng/t	Quarterly
2-Chlorophenol			CIN	ny/L	Quarterly
2-Chlorotoluene				ug/l	Quarterly
2-Hexanone				02/1	Quarterly
2-Methy 4,6 distrophenol			ND	пд/І	Quarterly
2-Methylnapinalene				ng/l	Quarterly
2-Methylphenol				ng/l	Quarterly
2-Nitroaniline				الوه	Quarterly
2-Nitrophenol			ND	ng/l	Quarterly
3,3'-Dichlerobenzidine		<u> </u>	ND	ng/l	Quarterly
3/4-Methylphonol				ng/	Quarterly
3-Nirmaniline				ug/l	Quarterly
4.4'-DDD			ND	ng/l	Quarterly
4,4'-DDE			ИD	තුළ/	Quarterly
4,4'DDT			ND	ng/l	Quarterly
4,6-Dinitiro-2-Methylphenol				വുദി	Quarterly
4-Bromophenyl-Phenyl Ether			NI)	ng/l	Quarterly
4-Chloco-3-Methylphenol			ND	ng/l	Quarterly
4-Coloconaciline				cg/l	Quarterly
4-Culorophenyl-Phenyl Eriter			ND	ng/l	Quarterly
4-Chlorotoluene				<u>ug/l</u>	Quarterly
4-Methyl-2-Pentanone				ug/l	Quarterly
4-Nitroaniline				ng/l	Quancely
4-Nitrophenol			NI)	ng/l	Quarterly
Aceraphthene			ND	ng/l	Quarterly
Acenaphthylene			מא	الوم	Quarterly
Acetone				ug/l	Quarterly
Acrolein			ND	1g/l	Quancitly
Aerylonurile			ND	ng/l	Quarterly

H) OUTFALL PRIORITY POI	JUTANTS-#	001					
						Prequency	
1			<b>.</b>	of			
Constinuent & Date of Sample		Collegi	elrátum ''		Units	Analysis	
Date	5/13/04	5/19/04	6/16/04	+		1	
Aldrio	217211414		ND		1 	Ounetselv	
Alpha-BHC			ND	<del> </del>	ng/l	Quarterly	
Anniotia Nitrate	ND		- 1517	+	rg/l	Quarterly Annually	
Analine	310			+	mg/I. Jg/l	<del></del>	
Anthracene			NĐ:	+	ng/l	Quarterly Quarterly	
Arcotor 1248	<del>-</del> -		ND	1	ng/1 —	<del></del>	
Artolar 1254			ND ND	+	ng/l	Quarterly	
Aractor-1016	<u> </u>		ND	+	<del>-</del>	Quarterly Quarterly	
Asociar-1221			ND	<del>                                     </del>	ng/l ng/l	Quarterly	
Asoctor-1232			ND ND	<del>-</del>	ng/L	Quarterly	
Aroctor-1242			SD	<del>!</del>	ng/L	Quarterly	
Aroutor-1260		- <del>-</del> -	ND	<del> </del>	nga		
Arcetor-1262			.12	<del>                                     </del>		Quarterly	
Azobenzene	<del></del> -				ng/l	Quarterly	
Benzenc			ND	<del>                                     </del>	. <u>ng/l</u>	Quarterly	
Benzidine			ND	+	ug/I	Quarterly Quarterly	
Benzo (a) Anthragene			ND		r.g/l ng/l		
Венко (а) ругене			ND	1	ng/l	Quarterly Quarterly	
Benzo (b) Phoranthene			ND			Quarterly	
Jenzo (e) pyrene			ND		ng/l ng/l	Quarterly	
Benzo (g,h.i) Perylene			ND		ng/I	Quarterly	
Benzo (k) Fluoranthene	-		ND	<del></del>			
Benzo (k) Pyrene			110	<del> </del>	ng/i	Quarterly Quarterly	
Benzonic Acid				<del>                                     </del>	ug/l	Quarterly	
Benzyl Alchol				·	<u>ug/l</u>	Quancity	
Bera BHC			ND	<u> </u>	ილ! ილ/l	Quarterly	
Biphenyl		$\overline{}$	- 117		ngi	Quarterly	
Bis (2-chloroEthoxy)methane			ND			Quarterly	
bis(2-chloroethyl)ether			ND			Quarterty	
bis(2 ethyhexyl) phthalate			36.6	<del>-</del> -		Quarterly	
Bis(2-Chloroisopropyl) Fiber			ND	+	ng/l	Quarterly	
Biss-Chloreethoxy) Methans	-			<del>                                     </del>	ng/l	Quarterly	
Bromuhenzens					ug/l	Quarterly	
Bromochloromethane	+	<del></del>	ND		رون ا/رون	Quarterly	
Bromodichloromethane		+			ug/l	Quarterly	
Bromoform			ND	<del>''</del>	ug/]	Quarterly	
Втоповживане		<del> </del>	ND	<del>                                     </del>	05/;	Quarterly	
Butyl-Benzyl Phihalate		<del>†</del>	10 (0	1	ng/l	Quarterly Quarterly	
c-1,2-Dichloroethune		<del></del>	19.10	1	ng/l	Quarterly	
c-1.3-Dichloropropene			ND	<del>                                     </del>	ng/l	Quarterly	
Carbon disulfide	· <del>-</del> ·		LIL		11g/l	Quarterly	
Carbon Tetrachloride			ND	$\vdash \vdash \vdash$		Quarterly	
Thlordane				<del>                                     </del>	лу/I	Quariety	

H) OUTFALL PRIORITY POL	LUTANTS-M	001			
					Frequency
				·   '	of
Constituent & Date of Sample		Concer	pration	Units:	Analysia
			·	·	
Date :	5/13/04	5/19/04	6/16/04 .	·	
Chlordage alpha			-ND-	ng/t	Quarterly
Chlordane-ganuna			ND	ng/l	Quarterly
Chlorethane		:	. ND	: ug/l	Quarterly
Chlorform			ND	l ug/l	Quarterly
Chlormethane			ND	ug/l	Quarterly
Chlorobenzene			מא	ug/l	Quarterly
Chlorodane-alpha			ND	10g/I	Quarterly
Chorodane gattuna			NĐ	ng/l	Quarterly
Chrysene			ND .	ng/J	Quarterly
Delta-BHC			ND :	ng/l	Quarterly
Dibenz (a,h) Anthracene			ND	ng/l	Quarterly
Dibenzofuran				ນg/ໄ	Quarterly
Dibromochloromethane			ND .	ug/I	Quarterly
Dibromomethape				ՄԱՄ	Quarterly
Dichlorodiflouromethane				ივი	Quarterly
Dieldrin			ND	ng/l	Quarterly
Diethyl Pihalatel			30.3	ng/l	Quarterly
Dirricthyl Phthalate			N))	ng/l	Quarterly
Di-n-Butyl Phthalute		·	147	ng/l	Quarterly
Di-n-Octyl Phthalare-			ND	ng/l	Quarterly
Endesulfan I			ND	ng/l	Quarterly
Endosolfan II			ΝĐ	Гул	Quartedly
Bridosulfan Sulfare			ND .	ng/l	Quarterly
Endein			ND	11g/J	Quarterly
Endrin Aldehyde	-		ND	η <u>υ</u>	Quarterly
Endran Ketone				ν <u>ε</u> /Ι	Quarterly
Ethylbenzene			ND.	ug/I	Quarterly
Fluoranthone			ND	ng/l	Quarterly
Fluorene	1		ND	ng/l	Quarterly
Gamma-BHC			ND	ng/l	Quarterly
Heptachlur			ND	ng/l	Quarterly
Heptachtor Epoxide			ND	ng/l	Quarterly
Hexachloro-1,3 Butadiene				ug/l	Quarterly
Hexachlorobutadiene			ND	ng/l	Quarterly
Hexachlorobenzene		<u> </u>	ND	ng/l	Quarterly

H) OUTFALL PRIORITY POI	LUTANTS#	INIT			
			<del></del>		Prequency of
Constituent & Date of Sample		Concee	utration	Units	Analysis
Date	5/13/04	5/19/04	6/16/04		
Hexachlorocyclopentaliene	.11.2.4114	3/19/04		<del>-</del>	
Hexachlinmeiliane			ND		Quarterly
Indeno (1,2,3 c,d) Pyrene		- <u>-</u>	ND ND		Quarterly
Isopherone	<del>_</del>		ND S75		Quarterly
Isopropylbenzene			ND	nළ/l	Quarterly
Methoxychlor			<del></del>	ј ц <u>р</u> /I	Quarterly
Methylene obloride				ng/l	Quarterly
Methyl-tert-Butyl Ether			ND.	19/1	Quarterly
Mirex				<u>- ag/l</u>	Quarterly
			8175	ng/l	Quarterly
Napphalene			ND	ng/I	Quarterly
p-finty/benzene					Quarterly
Nitrobenzene			ND .	. ng/l	Quarterly
Nitrate-N			1.79	mg/l	Annually
N-Nitrosodimathylamine			ND	ng/l	Quictority
N-Nitroso-di-n-prophylanoige			ND	ng/l	Quarterty
N-Nitrosodiphenylumine			ND ND	ng/l	Quarterly
n-Propy therweile				ng/l	Quarterly
o-Xylene					Quarterly
n/m-Xylane				ug/l	Quarterly
Pentachlorophenol	i		ND	ng/l	Quarterly
Perylene				ng/l	Quarterly
Phenanthrene			ND	ng/L	Quarterly
Phenal			ND	ng/I	Quarterly
p-(sopropy)tolnene				ug/l	Quarterly
Ругеле			ND	ng/l	Quarterty
Pyridine					Quarterly
∞c-Butylbenzene				սց/1	Quarterly
Styrene				ug/l	Quarterly
t-1,2-Dichloraethone			ND	ug/I	Quarterly
t-1,3-Dichloropropone			ND	u <sub>g</sub> /J	Quarterly
tert-Butylbanzene				ug/1	Quarterly
Tetrachl( <u>ireeth</u> ane				ug/(	Quarterly
Total Cyande		_	ND	mE,["	Quarterly
Totak Detectable DDTs		ł	a ]	mg/L	Quarterly
Totuk Detectable PAHs				ug/l	Quarterly
Toulene "				118/1	Quarterly
Toxaphone			SD	ng/l	Quarterly
trans-Nonachlor				11 <u>9</u> /1	Quarterly
Titeliloroethene			ND	սը/1	Quarterly
Trachlorefluoromethane					Quarterly
Vinyl Acetate			<del></del>	n8/J	Quaterly
Vinyl Chloride			N))	ug/7	Quarterly
Cylenes			ND	10g/L	Quarterly

I) OUTFALL PRIORITY POL	LUTANT	S-#002				
	]				Γ	Frequency
1.						rd.
_Constituent & Date of Sample		Солке	nication		Units	Analysis
				<u> </u>		
Date	5/13/04	5/19/04	6/16/04			
Antimony	0.117	0.130			ug/1	Quarterly
Arsenic	1,01	0.887			ug/I	Quarterly
Barium					Ng/I	Quarterly
Beryllium	ND	0.009			ug/t	Quarterly
Cadmium	0.36	ND			ug/l	Quarterly
Chromium (Total)	0.38	1.91			ug/l	Quarterly
Chromium, Hexavalent					ug/l	Quarterly
Cobalt					ug/l	Quarterly
Copper	1.56	0.691			ug/l	Quarterly
Lead	D.258	ND			ug/I	Quarterly
Mercury	ND	ND			ug/I	Quarterly
Molybdenum					ug/I	Quarterly
Nickel	0.451	0.186			ug/l	Quarterly
Selenium	0.23	0.018		"	ug/l	Quarterly
Silver	ΝĎ	ND			цд/І	Quarterly
Thallium	0.0131	0.013			ug/f	Quarterly
Vanadium					mg/l	Quarterly
Zine	3,46	3.59			บg/l	Quarterly
1,1,1,2-Tetrachiruethana			CZA		ug/l	Quarterly
1,1,1-Trichloroethane			ND		บยู/ม	Quarterly
1,1,2,2-Tetrachlroethane		Ī	ND		ng/l	Quarterly
1,1,2-Trichlorocthane			ND		նեչվ	Quarterly
1.1_Dichloroethane			ИD		ug/J	Quarterly
1,1-Dichloropropane					աց/1	Quarterly
1,2,3-Trichlorobenzene				<u> </u>	цу/І	Quarterly
1,2,3-Trichloropropane		T			ng/L	Quarterly
1,2,4-Trichlorobenzene		[	ND		ng/l	Quarterly
1,2,4-Trimethy beozene					og/l	Quarterly
1,2-Dibromoethane					บรู/เ	Quarterly
1,2-Dibromo-3-Chloropropage					118/1	Quarierty
1,2-Dichlorobenzene			ND		ng/l	Quarterly
1,2-Dichlorobezene					ng/l	Quarterly
1,2-Dichloroethane			ND		ug/I	Quarterly
1,2-Diphenylhydrazine			ND.		пдЛ	Quarterly
1.2-Dichloropropane					ug/1	Quarterly
1.3,5-Trimethylbenzene					ng/l	Quarterly
1.3-Dichlorobenzene			ND		ng/l	Quarterly
1,4-Dichlorobenezene			טט		ng/l	Quarterly

)) OUTFALL PRIORITY POL	LUTANT:	S-#002				
						Frequency
	i			i		οľ
Constituent & Date of Sample		Conce	ntration		Units	Analysis
Date	5/83/04	5/19/04	_6/16/04			
1.2-Dibromo-3-Chloropropane					ng/l	Quarterly
1 Methylphenanthreneene					ng/l	Quarterly
1-Methyloaphthalene					ng/l	Quarterly
2,2-Dichloropropane					ug/I	Quarterly
2,3,5-Trimethylpaphtalene					ng/I	Quarterly
2,3,7,8 TCDD			ND		ng/l	Quarterly
2,4,5-Trichlorophenot					ug/I	Quarterly
2,4,6-Trichturnphenol			ND		11971	Quarterly
2,47-DDE			ND		ng/l	Quarterity
2,4°-DDT			ND	[	ng/C	Quarterly
2.4-Dichlorophenol	<u> </u>		ND		ng/l	Quarterly
2.4 Dimethylphenol			ND		ng/l	Quarterly
2.4-Dinitirophenol			Ν̈́D	i	ng/l	Quarterly
2,4-Dinitrateniene			ND		ng/L	Quarterly
2,6 Dimothyloapthalene					ng/l	Quarterly
2,6 Dinitrotoulene			ND		ng/l	Quarterly
2.4'-DDD	-		ND		ng/l	Quarterly
2-Butanone					ug/l	Quarterly
2-Chloroethyl Vinyl Ether			ND		ng/l	Quarterly
2-Chloronapthalene	_		ND		ng/l	Quarrerly
2 Chilorophenol			ND		ng/l	Quarterly
2-Chlorototuene					ug/l	Quarterly
2-Hexanone					ng/I	Quarterly
2-Methy-4,6 dinitrophenol			ND		ng/I	Quarterly
2-Methylnaphtalene					1g/]	Quarterly
2-Methylphenol					ug/C	Quarterly
2-Nitroantine					սբ/ն	Quarterly
2-Nitrophenol			ND.		ag/l	Quanterly
3,3'-Dichlorobenzidine			ND		пу/І	Quarterly
3/4-Methylphenot					الون	Quarterly
3-Nitroaniline					ug/l	Quarterly
4,4'-101010			ND		ng/l	Quarterly
4,4'-DDR			ND		ng/l	Quarterly
4,4'DDT			ND		ng/l	Quarterly
4,6-Dinitiro-2-Methylphenol			ND		ug/l	Quarterly
4-Bromophenyl-Phenyl Ether			ND		ng/l	Quarterly
4-Chloro-3-Methylphenol	ľ		ND		ng/l	Quarterly
4-Chloroomiline	] 1				ug/J	Quarterly
4-Chlorophenyl-Phenyl Ether			ND		ng/l	Quarterly

Constituent & Date of Sample		Conce		Units	l/requency of Analysis	
Date	5/13/04	5/19/04	6/16/04			1
	3/15/04	3/19/04	0/10/04		-	01
4-Chlorotoluene				ļ	นยู/ไ	Quarterl
4-Methyl-2-Pentanone					ug/l	Quarter
4-Nitroaniline		ļ	2375		ug/l	Quarterl
4-Nitrophenol			ND		ng/l	Quarter
Acenaphthene	ļ		ND		ng/L	Quartert
Acenaphthylene			ND		ng/L	Quarter
Acetone					u <u>w</u> l	Quarterl
Acrolein			ND .		ug/t	Quarter
Acrylonitrile	<u> </u>		ND		ug/l	Quarter
Aldrin			ND		ng/	Quarter
Alpha-BHC			ND		ng/l	Quarter
Ammonia Nitrate	ND				mg/L	Annuall
Analine					ug/I	Quarterl
Anthracene			ND		ng/l	Quarterl
Arcotor 1248	<u> </u>		ND		ng/I	Quarter1
Arcotor 1254			ND		ലൂല	Quarter!
Arector-1016			ND		ng/l	Quarterl
Atoctor-1221			ND		ng/l	Quarteri
Aractor-1232			ND		ng/l	Quarterl
Aroctor-1242			ND		ng/l	Quarterl
Aroctor-1260			ND		ng/L	Quarterl
Aroctor-1262					ng/l	Quarterl
Azubenzene	,				ng/l	Quarterl
Benzono		Ī	ND		นอ/ไ	Quarterl
Benzidiae			ND		ng/l	Quarterl
Benzo (a) Anthracene			ND		ng/l	Quarterl
Вепхо (а) рутеле			ND:		ng/I	Quarterl
Benzo (h) Fluoranthene			ND		ng/l	Quarterl
Benzo (e) pyrene			CIN		ηg/1	Quarter1
Beozo (g.h,i) Perylene			ND		ng/J	Quarterl
Benzo (k) Fluoranthene			ND		ng/1	Quarter!
Benzn (k) Pyrene			,		ng/l	Quarterl
Benzonie Acid		<del></del>			ug/l	Quarterl
Benzyl Alchol					ug/l	Quarterl
Beta-BHC			ND	<del>                                     </del>	ng/l	Quarteri
Biphenyl			.,		ng/l	Quarterl
Bis (2-chloroEthoxy)methane			NĐ		rg/l	Quarterl
ois(2-chloroethyl)ether	<del></del>		ND ND			Quarterly
his(2 ethyhexyl) phihalate			85.1		ng/l	Quarterly

I) OUTFALL PRIORITY POL	LUTANT	S-#IM2				
ţ-						Frequency
I						of
Constituent & Date of Sample		Cance	ntration		Units	Analysis
Date	5/13//M	5/19/04	6/16/04			
Bis(2-Chloroisopropyl) Ether			NĐ	[	ng/l	Quarterly
Bis( Chloroethoxy) Methane			ND		ng/!	Quarterly
Bromobenzene					ug/	Quarterly
Bremochloromethane					ug/L	Quarterly
Brunwdichloromethane			ND	[ <u></u>	បន្ត/រ	Quarterly
Bromoform			ND		ug/l	Quarterly
Bromomethanc			ND		ug/l	Quarterly
Butyl-Benzyl Philialate			ND		ng/l	Quarterly
c-1.2-Dichloroethane					ug/l	Quarterly
e-1,3-Dichloropropene			ND		ug/l	Quarterly
Carbon disulfide					(1 <u>9</u> /1	Quarterly
Carbon Tetrachloride			ND		ug/l	Quarterly
Chlordane					ng/l	Quarterly
Chlordane-alpha			לוא		ng/l	Quarterly
Chlordane-gamma			ND		ng/l	Quarterly
Chlorethane			ND		09/1	Quarterly
Chlorform					ug/l	Quarterly
Chlometheoc			ND		ug/l	Quarterly
Chlorohenzene			שמ		ug/l	Quarterly
Chlorodane-alpha					ng/l	Quarterly
Chorodane gamma					பத/1	Quantity
Chrysene-			ND		ng/l	Quarterly
Delta-BHC			ND		ng/l	Quarterly
Dibenz (a,b) Anthracene			נוא		ng/l	Quarterly
Dibenzofuran					пбД	Quantrly
Dibromochloromethane			ND		იგ/(	Quarterly
Dibromomethane					ug/l	Quarterly
Dichlorodifluuromethane				<u> </u>	ng/l	Quarterly
Dieldrin			ND		rg/l	Quarterly
Diethyl Pthalatel			18.1		r.g/l	Quarterly
Dimethyl Phthalate			ND		ng/l	Quarterly
Di-n-Butyl Phthalate			20.8		ng/1	Quarterly
Di-n-Octyl Phthalate-			ND		ng/l	Quarterly
Bndosulfan I			ND		#g/l	Quarterly
Endosulfan II			ND		πg/l	Quarterly
Endosulfan Sulfate			ND		ng/I	Quarterly
Endrin			ND		пед	Quarterly
Endrin Aldehydo			ND		ng/l	Quarterly
Endrin Ketone					цμ/1	Quarterly

					Frequen
					ot
Constituent & Date of Sample		Conce	atration	Units	Analysi
	5/13/04	5/19/M	6/16/04	<del></del> -	т —
Date	3/13/09	2/19/4H		1	10
Ethylbenzene			ND	ug/.	Quarter
Fluoranthene	<u> </u>		ND	: <u>[g/]</u>	Quarter
Fluorene			ND:	ng/1	Quarter
Gamma-BHC			ND	ng/]	Quarter
Heptachlor			ND	11g/]	Quarter
Heptachlor Epoxide			ND	11g/1	Quarter
Hexachloro-1,3 Butadiene				ug/1	Quarter
Hexachlorobutadiene	<u> </u>		ND	ng/l	Quarter
Нехасиюнивение			ND	118/7	Quarter
Hexachlorogyclopentadicue	<u> </u>		ND	ng/l	Quarter
Нехасьчогостыя			ND	ng/l	Quarter
Indeno (1,2,3 c.d) Pyrone			ССИ	ng/l	Quarter
Isophorone			ND	ng/l	Quarter
lsnpropylbenzene				ງ ທີ່ ທີ່ ຄວາມຄວາມຄວາມຄວາມຄວາມຄວາມຄວາມຄວາມຄວາມຄວາມ	Quarter
Methoxychlor			<u> </u>	l/gii	Quarter
Methylene chloride			ND	ug/l	Quarter
Methyl-tert-Butyl Ether				ng/l	Quarte
Mirex	:			ng/l	Quarte
Napthalene			ND	ng/l	Quarte
n-Butylbenzene				ug/l	Quarte
Nitrobenzene			ND	ng/l	Quarte
Nitrale N				mg/L	Annua
N-Nitresudimethylamine		[	ND	ng/l	Quarte
N-Nitrosn-di-n-prophylamine			ND	ng/l	Quarte
N Nitrosodiphenylamine			מא	ng/l	Quarte
n-Propylbenzena				ug/l	Quarte:
o-Xylene				ng/l	Quane
p/m-Xylene			"	ng/l	Quarte.
Pentachinrophenol			ND	ng/l	Quarto
Perylene				ng/l	Quarte
Phenanthrone			ND	ng/L	Quarte:
Phenol			ND	ng/l	Quarte
p-Isopropyltaluene				ug/!	Quarte
Pyrenc			ND	១៨/:	Quarte
Pyridine			Ì	ug/l	Quarte
sec-Butylbenzeue				ug/3	Quarte
Styrene				nē\]	Quazre
t-1,2-Dichloroethene	Τ		ND	ug/l	Quarte
t-1.3-Dichloropropene	<b>├</b>	1	ND	ug/1	Quarte

1) OUTFALL PRIORITY POL	LUTANT:	<del>\$ #</del> 002			
Constituent & Date of Sample		Солов	ntracion	Units	Frequency of Analysis
Date	5/13/04	5/19/04	6/16/04		<u> </u>
teri-Butylbenzene				ug/l	Quarterly
Tetrachloroethane			ND	ug/t	Quarterly
Total Cyanide			ND	mg/l.	Quarterly
Totak Detectable DDTs			Ó	mg/L	Quarterly
Totak Detectable PAHs				ug/l	Quarterly
Toulene			ND	່ ນຊຸ/ໄ	Quarterly
Toxaphene			ND	ו/פַת	Quarterly
trans-Nonachter				ng/l	Quarterly
Trichlnroethene			ND	utg/l	Quarterly
Trichlorofluoromethane				пē\J	Quarterfy
Vinyl Acetate				ug/[	Quarterly
Vinyl Chloride			ND	ug/l	Quancity
Xylenes			ND	. ug/1	Quantity

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H) Ots PECE PRIORES (POI		Concentration	Units	Frequence of Analysis
			T SAME	13321732
Date	5/7/03	6/2/03		<del>                                     </del>
Antimony	0.13	0.11	ug/l	Quartes)
Arsenie	1.8	0.1	45°C	Quarterly
Beryllium	ND	0.01	ug/l	Quartert
Cadmium	ND	0.08	ng/t	Quarterl
Chromium (Total)	0,87	2.2	ug/l	Quarterl
Claronium, Hexavalent	'		ug/l	Quarterly
Copper	D.49	84.6	ug/l	Quarterl
Lcad	0,12	1,27	ug/l	Quarterl
Mercury	0.05	0.02	ng/l	Quarterl
Molybdenum			ng/]	Quarter
Nickel	0.39	52.1	ug/1	Quarteri
Selectium	0.02	0.21	ug/i	Quartert
Silver	ND	ND	ug/l	Quarted
Thallium	0.009	ND		Quarterly
Vunedium	**		mg/l	Quarterly
Zine	2.14	0.93	ug/l	Quarterl
1,1,1,2-Tetrachlroethane	NID	ND		Quarterl
1.1.1-Trichloroethane	บท	ND	tig/l	Quarter1
l, I,2,2-Tetrachiroethane	ИD	ND UN	ug/l	Qaareri
L,L,2-Trichlorogihane	ND	ND "	ug/l	()uurterly
1,1_Dichloroethane	ND	ND	ng/I	Quarteri
I,I Dichloropropane			- up/l	Quarterly
1,2,3-Trichlorobenzeno	ND		ug/l	Quarterly
1,2,3 Trichtoropropana			ug/l	Quarterly
1,2.4-TrichInrobenzene	ND	NĐ	ng/l	Quarterly
1,2.4-Trimethylbenzene		1.12	ng/l	Quarterly
1,2 Dibromoethage			ug/1	Quarterly
1.2-Dibromo-3 Chloropropane			ug/I	Quartery
,2-Dichlurobenzene	ND	ND	rg/i	Quarterly
,2 Dichloroethane	ND	ND UND	ug/l	Quarterly
,2-Diphenythydrazine		- 112	ag/l	Quarterly
,2-Dichloropropane		ND	ug/l	Quarterly
.3.5-Trimethylbenzene				Quarterry
,3-Dichlorobenzene	ND	ND T	ng/l	Quarterly
.+Dichlorobenczcge	ND	ND ND	ng/l	Quarterly
2-Dilyomo-3-Chinenpropane			ng/l	Quarterly
-Methylphenauthreneene		ND ND	ng/1	Quarterly
-Methylnaphthalene	-	ND -		·
2,2-Dichloropropane		1-12	ng/l	Quarterly Characteris
3.5-Trimethylnaphtalene	$\overline{}$	ND	g/.	Quarterly Quarterly
3.7.8 TCDD	ND	ND .		<u>  Quarterly</u>   Quarterly

HOUTEAU ENIORITY CO	STOP LOW LAW 19-4	#001			
					Frequen
Constituent & Date of Sample		Concentra	rium	Units	Of A wolver
CONSTRUCTION & Date of Sample		Concentra	i	Carris	Analys
Date	5/7/03	6/2/03	· · · · · ·		
2.4,5-Trichlorophenot		i		ug/!	Quarter
2,4,6-Trichlorophenol	ND	ND		րը/Լ	Quarter
2.4'-DDD	ND	ND		ng/l	Quarter
2,4'-DDE	ND	ND		العِم	Quarter.
2,4'-DDT	ND	ND	,	ng/l	Quarter
2,4-Dichlorophenot	ND	ND		ng/l	Quarter
2,4-Dimethylphenal	ND	מא		ng/l	Quarter
2,4-Dinittrophenol	ND	של		ng/l	Quarter
2,4-Dinitrotoulene	ND	ND	<u> </u>	ng/l	Quarter
2,6 Dimethylnapchalenc		ND	-	ng/l	Quarter
2,6-Dinitrotoulene	ND	ND	İ	ng/l	Quarter
2-Butanone				11977	Quarter
2-Chloroethyl Vinyl Ether	ND	ND		ug/l	Quarter
2-Chloronapthalene	ND	ND		:ig/l	Quarter
2-Chlorophenot	ND	ND	<u> </u>	ng/l	Quarter
2-Chlorotoluene			' <del>-</del> '	ug/l	Quarter
2-Hexanone				ug/l	Quarter
2-Methy-4,6 dinitrophenol	ND	ND	· <del>-  </del>	ng/l	Quarter
2-Methylnaphtalene		ND		ng/I	Quarter
2-Methylphenol				ug/I	Quarter
2 Nitroanilme			<del>-</del> "	ug/I	Quarter
2-Nitrophenol	ND	ND	· <del>-</del>	ng/l	Опапел
3,3'-Dichlerobenzidine	ND	ND		ng/l	Quarter
3/4 -Methylpheuol				ng/l	Quarter
3-Nitroaniline			<u></u>	ug/l	Quarter
4,4'-DDD	ND	CIN		og/l	Quarter
4,4'-DDE	CIN	ND		ng/l	Quarter.
4,4'DDT	מא	ND	"	ng/l	Quarter
4,6 Dinitiro-2-Methylphenol			¬ <del>'</del>	119/1	Quarter
4-Bromophenyl-Phenyl Ether	ND	NB	·	ng/l	Quarter
-Chloris-3-Methylphenni	ND	ND		ng/l	Quarteri
Chlorocaniline		1111		ug/I	Quarter
4-Chlorophonyl-Phenyl Ether	ND	ND		ng/I	Quarter
-Chlorotoluene				ug/t	Quarter
1-Methyl-2-Pentanone	1		<u> </u>	ug/l	Quarter
1-Nitroaniline		+		ug/l	Quarieri
1-Nitrophenol	ND T	ן מא		ng/l	Quarter
Aceuuphtheae	ND	ND ND		0g/l	Quarter
Acenaphihylene	ND ND	ND ND		ng/l	Quarteri
Acatone	1122	***	<del></del>		Quarter;
Acrolein	ND T	ND	<del></del>	ug/J	Quarteri

			1.53			Fraquene
i				Ì		nt
Constituent & Date of Sample		Concente	ation		Danits	Aitalysis
				·· <del>-</del> ·		71762301
Date	5/7/03	6/2/03		$\overline{}$		
Acrylonitrile	ND	NĐ			ngh	Quarterly
Aldrio	ND	ND	1		ng/l	Quarterly
Alpha-BHC	ΠD	ND			ng/l	Quarterly
Ammonia Nitrate	UN	0.34			mg/L	Annualiy
Analine		ľ			ug/l	Quarterly
Anthracene	ND	ND			og/l	Quarterly
Arcutor 1248	עא	ND .		Ť	ng/l	Quarterly
Arcotor 1254	ND	מא		$\neg \neg$	ng/l	Quarterly
Arnetor-1016	ND	ND			ng/l	Quarterly
Aroutnr-1221	ND	ND			ng/I	Quarterly
Aroctor-1232	ND	ND			ng/C	Quarter!)
Aroctor-1242	ND	ND			ng/l	Quarteely
Aroctor-1260	ND	ND	<del>-  </del>		ng/l	Quarterly
Aroctor-1262					ng/l	Quarterly
Azobenzena					ng/l	Quarterly
Benzene	NID	ND			ng/l	Quarterly
Henzidine	מא	ND		<del></del> +	ng/l	Quarterly
Benzo (a) Authraceae	ND	ND			ng/l	Quarterly
Benzo (a) pyrene	ND				ng/l	Quarterly
Benzo (b) Fluoranthene	ND	ND		$\overline{}$	ng/l	Quarterly
Benzo (e) pyrene	ND				ng/l	Quarterly
Benzo (g,b,i) Porylene	ND :				ng/l	Quarteriy
Benzo (k) Fluiranthene	ND	ND				Quarterly
Benzo (k) Pyrene	_	·			ng/l	Quarterly
Benzonie Acid					(ig/l	Quarterly
Beazyl Alchol					ua/I	Quarterly
Beta-BHC	ND	ND			ng/I	Quarterly
Biphenyl		NT)			ng/l	Quarterly
Bis (2-cldoroEthoxy)methane	ND	ND			ng/l	Quarterly
ois(2-chloroethyl)ether	ND	ND			ng/I	Quarterly
nis(2 ethylicxyl) phthalate	199.0	136.0			ng/l	Quarterly
Bis(2-Chloruisopropyi) Erher	ND	ND	<u> </u>		ng/l	Quarter?y
Bis(-Chloroethoxy) Methane	ĺ		<u> </u>		ng/l	Quarterly
Bromobenzene			The state of the s		ug/l	Quarterly
dromochloromethane					0 <u>g</u> /l	Quarterly
Stomodichloromethane	ND	- DO		-+	ug/l	Quarterly
Bromofomi	ND	ND .		$\overline{}$	ug/l	Quarterly
3rnnxomethane	ND	ND		<del>- +</del>	ug/J	Quarterly
Butyl-Benzyl Phihalate	ND	ND I	<del></del>	<del>-  </del>	ng/	Quarterly
-1,2-Dichturoethane		—: <del>:::-</del>	<del>-   -</del>	<del></del>	ug/L [	Quarterly
-1.3 Dichloropropene	ND	ND		<del></del>	ug/l	Quarterly

HEOLIFALL PRIPARITATION	ECTAMES.	# <b>V</b> V)	···· : .	<u> </u>	17. 1
					Frequenc
_					UÍ
Constituent & Date of Sample		Conce	ntration	Units	Analysi:
Doro.	60.03	(0.01	1		-
Date Control of the C	5/7/03	6/2/03			<del> </del> _
Carbon disulfide			<del>                                     </del>	ug/l	Quarter?
Carbon Tetrachloride	ND	ND	<del>                                     </del>	ug/l	Quartert
Chlordane		ļ <u>.</u>	<del> </del>	ng/l	Quarteri
Chilordane-alpha	ND	ND	ļ <u>;</u>	_ng/l	Quarterl
Chlordane-gamma	ND	ND ND	<del>                                     </del>	ng/l	Quarterl
Chlorethanc	ND	ND	<del>                                     </del>	og/l	Quarteri
Chlertonn	ND	ND	<u> </u>		Quarterl
Chlomictbane	ND	ND		ug/l	Quarterl
Chlorobenzene	ND	ND	<del>                                     </del>	(gf	Quarteri
Chlorodane-alpha	ND	NI)		. ug/l	Quarter)
Chorodane-gamma	ND	ND		ug/l	Quarterl
Chrysene-	ИD	ND	<u> </u>	ng/l	Quarterl
Delta-BHC	ND	ND		ng/l	Quarter
Dibenz (a,h) Anthracene	<u> ДИ</u>	_		ng/l	Quarterf
Dibenzofuran		ļ		ug/l	Quartert
Dibromochleromethane	ND	МD		นรู/ไ	Quarterl
Dibromomethate		<u></u>	<u>l</u>	ug/l	Quarterl
Dichlorodiflournmethane				ug/j	Quarteri
Dielurio	ND	ND	] [	ng/I	Quarterly
Diethyl Pthalatel	ND	ND	<u>i</u>	ng/l	Quarterly
Dimethyl Phthalate	ND	ND		ng/l	Quarterl
Di-o-Butyl Phthalete	ND	11.9		ng/.	Հիկտութի
Di-n Octyl Phthalate-	ND	ND		arg/l	Quarter?
Endosulfan I	ND	ND		ng/l	Quarterly
Cadosulfun II	ND	ND		ng/l	Quarterly
Endosoffan Sulfate	ND	ND		ا/يزه	Quarterly
Hindrin	ND	ND		ng/l	Quarterly
Endrio Aldehyde	ND	ND		ng/l	Quarterly
Endrin Ketone				ug/l	Quarterly
Bithythenzene	ΝD	ND		ug/l	Quarterly
luorunthene	ИD	ND		πς/Ι	Quarterl
fluorene	ND	ND	1	ng/l	Quarterl
Ganima-BHC	ND	ND		ng/l	Quarterly
Teptachlor	NI)	CIN		ng/)	Quarterly
teptachlor Epoxide	ND	ND	·	. π <u>μ</u> /:	Quarterly
Hexachtoro-1,3 Butadiene		-		ug/l	Quarterly
-fexachtorolanadiene	NU	ND		ng/l	Quarterly
Hexactilorohenzene	NT)	ND			Quarterly
Texachlorocyclopentadiene	ND	ND	<del>                                     </del>	- <u>ngn</u>	Quarterly
lexachloroethane	ND	ND	<del>                                     </del>	ng/l	Quarterly
ndeno (1.2,3-c,d) Pyrene	ND		<del>                                     </del>	ng/l	Quarterly

HEOLUKAHEN OKUMEO					Frequency
					of
Constituent & Date of Sample		Conce	enitation	1 Feries	
Ceased at 1982 of the high		Lone		Units	Analysis
Date	5/7/03	6/2/03		<del></del>	<del>                                     </del>
Isophorone	ND	ND	<del>-</del>	ng/l	Quarterly
1sopropylbenzene			1	ug/t	Quantity
Methoxychlor	ND		·	ng/l	Quarterly
Methylene chloride	ND	ND	·	. ng/l	Quarterly
Methyl-test-Butyl Ether				ug/l	Quarterly
Mirex	ND		· <del>-</del>	ng/I	Quarterly
Napthaleoc	ND	ND	-	ng/J	Quarterly
n Butylbenzene		· · · · · · · · · · · · · · · · · · ·	<del>                                     </del>	ug/l	Quarterly
Nitrohenzene	ND	ND	·· <del>-</del>	ng/t	Quarterly
Nitrato-N	<del>-</del>	1.2	<del>'   '</del>	mg/L	Annually
N-Nitrosodimethylamine	ND	עא	<del>                                     </del>	ng/t	Quarterly
N-Nitroso-di n-prophylamine	ND	ND "		ng/l	Quarterly
N-Nitrosodiphenylamine	ND	ND	-	ng/l	Quarterly
n Propylbenzene		.,		ug/l	Quarterly
o-Xylene		-	<del>                                     </del>	ug/I	Quarterly
p/m-Xylene			<b>—</b>	ug/l	Quarterly
Pentachilocophenul	ND	מא		19/1	Quarterly
Perylene		1.2	<del> -</del>	ng/l	Quarterly
Phenanthrene	ND	ND	<del>  -</del>	ng/I	Quarterly
Phenol	ND	ND	1	ng/t	Quarterly
p-lsopropyltoluene			<del>-</del> -	ug/l	Quarterly
Pyrene	ND	ND		ng/l	Quarterly
Pyridine			<del>                                     </del>	ug/l	Quarterly
sec-Burylbenzene			<del>                                     </del>	ag/l	Quarterly
Styrene	· <del>-</del>		<del> </del> -	ug/l	Quarterly
1,2-Dichloroethene	ND	CIN		ng/i	Quarterly
I-1,3-Dichloropropene	ND	พัก		nē/l	Quarterly
ert-Butythenzene		11,72		ug/l	Quarterly
Fetrachloroethane	NI)	ND		ug/l	Quarterly
Fotal Cyanide	ND	2122		mg/L	Quarietty
Fotak Detectable PAHs	0.0		<del></del> -		Quarterly
Toulene	ND	ND		0g/l	Quarterly
Гохарненс	ND	ND	-	ng/l	Quarterly
rans-Nonachior	ND	212	· <del>-</del>	ng/l	Quarterly
Trichloroethene	ND ND	ND		ngn Nga	Quarterly
Frichlereflueromethane		. 112	"		Quarterly
Vinyl Acetate				ug/l	Quarterly
Vinyl Chlorida	ND	ND	<del></del>	ug/l	
Kytenes	ND	ND	<del>                                     </del>	ug/l ug/l	Quarterly Quarterly

						Frequency
	i					of
Constituent & Date of Sample		Concer	utratann		Units	Analysis
Date	5/7/03	,				
Antimony	0.13	-	1		ug/l	Quarterly
Assenic	1.73				ນຍ/]	Quarterly
Beryllium	ND				ug/J	Quarterly
Cadmium	ND.				ug/J	Quarterly
Chromium (Total)	1.01				սք/1	Quarterly
Chromium, Hexavalent					սբ/Լ	Quarterly
Copper	0.8B				ug/l	Quarterly
Lead	0.11				ug/l	Quarterly
Mercury	0.005				ug/l	Quarterly
Molybdonum					ug/l	Quarterly
Nickel	0.39				ng/l	Quarterly
Selenium	ND				บยู/ไ	Quarterly
Silver_	ND				ug/l	Quarterly
Thallium	0.01				ug/1	Quarterly
Vanadium					mg/l	Quarterly
Zine	2.26				ug/l	Quarterly
1,1,1.2 Tetrachhoethane	ND				นยู/ไ	Quarterly
1.1.1-Trichlomethane	ND				ug/l	Quarterly
1,1.2.2-Tetrachlroethane	שא				ug/i	Quarterly
1,1,2-Trichloroethane	ND			"	ug/l	Quarterly
1.1_Dichloroethane	ND		·		เลิป	Quarterily
1.1-Dichloropropage		, i			ug/I	Quarterly
1.2,3 Trichlorobenzene	מוא				იგ/ა	Quarterly
1,2,3-Trichloropropane					ug/l	Quarterly
1,2,4 Trichlorobenzene	ND	i			ng/l	Quarterly
1,2.4-Trimethylbenzene					ng/l	Quarterly
1,2-Dibromocthane	7	$\overline{}$			ug/J	Quarterly
1,2-Dibramo-3-Chloropropane					ug/I	<u> </u>
1,2-Dichlorobenzene	ND				ng/I	Quarterly
1.2-Dichtoroethane	ND				ug/I	Quarterly
1.2-Diphenylhydrazine					ng/l	Quarterty
1,2-Dichloropropane	ND.				ug/t	Quarterly
1,3,5-Trimothylbenzene			i		ng/l	Quarterly
1,3-Dichlorobenzene	ND				ng/l	Quarterly
1,4-Dæhlorohenezene	ND	$\neg \neg$	<del></del>		ng/l	Quarterly
1.2-Dihramo-3 Chloropropane					156N	Quarterly
1-Methylphenanthreneene					ле/]	Quarterly
I-Methylnaphthalene					ng/t	Quarterly

					<del></del> -	
	i					Frequency
						of
Constituent & Date of Sample		Concer	ntration		Units	Analysis
			<u> </u>		044.5	. ttiatyi
Date	5/1/03					
2.2-Dichloropropane					ug/l	Quarterly
2.3,5-Trimothylnaphtalene	Ī 1		_		ng/l	Quarterly
2,3,7,8 TCDD	ND		·	1	ng/l	Quarterly
2,4,5-Trichlorophenol	i				ا/وه	Quarterly
2,4,6-Trichlorophenol	ND			i	ng/l	Quarterly
2,4'-DDD	ND				ng/I	Quarterly
2.4'-DDE	ND				uē\]	Quarterly
2,4'-DDT	ND	· ·			леД	Quarterly
2,4-Dichlorophenol	ND				ng/t	Quarterly
2.4-Dimethylphenol	ND				ng/l	Quarterly
2,4-Diniitrophenol	ND				ng/l	Quarterly
2,4-Dinitrotoulene	ND				ng/l	Quarterly
2,6 Dimethylnapthalene					eg/l	Quarterly
2,6-Dinitrutoulene	ND	_			ng/l	Quarterly
2-Butanone					ng/l	Quarterly
2-Chloroothyl Vinyl Ether	ND				ag/I	Quarterly
2-Chloronapthalene	ND				ng/1	Quarterly
2-Chlorophenol	ND				ng/.	Ouarterly
2-Chiurutoluene		_			пб/І	Quarterly
2-Нехапопе	<del>_</del>				ng/l	Quarterly
2-Mrshy-4,6 dinitrophenol	ND		_		ng/l	Quarterly
2-Methylnaphtalene					rg/l	Quarterly
2 Methylphenol		$\neg$			ug/l	Quarterly
2-Nitmaniline					ug/I	Quarterly
2-Nitrophenol	ND		_		ng/I	Quarterly
3,3'-Dichlorobenzidine	ND				ng/l	Quarterly
3/4-Methylphenol		$\neg$			ug/l	Quarterly
3-Nitroamline					ug/l	Quarterly
4,4-DDD	CIN				ng/l	Quarterly
4,4'-DDE	ND				ng/J	Quarterly
4,4°D17/F	NI)				rg/l	Quarterly
4.6-Dinituro-2-Methylphenol		i			ug/l	Quarterly
4-Bromophenyl-Phenyl Ether	ND			<del>  </del>	ag/1	Quarterly
4-Chloro-3-Methylphenot	ND			-	ng/l	Quarterly
4-Chlorocaniline		$\overline{}$			ug/l	Quarterly
4-Chlorophenyl-Phenyl Ether	ND			$\neg$	ng/l	Quarterly
4-Chlorotoluene					0g/l	Quarterly
4-Methyl-2-Pentagone				<del>-  </del>	ug/l	Quarterly
4-Nitroanitine		<del></del>		+	ug/l	Quarterly

"	_					Irrequency
	1					of
Constituent & Date of Sample	1	Conce	mration		Units	Analysis
			1	Т_		1.11.011,000
Date	5/7/03	<u> </u>				Ι'
4-Nitrophenol	ND				ng/l	Quarterly
Acenaphthene	ND				ng/I	Quarterly
Acenaphthylene	ND			<u> </u>	ng/l	Quarterly
Acetone					ug/l	Quarterly
Acrolein	ND				ug/l	Quarterly
Acrylonitrite	ND				ug/l	Quarterly
Aldrin	ND			1 -	ng/l	Quarterly
Alpha-BHC	ND				ng/l	Quarterly
Ammonia Nitrate	ND			T	mg/L	Amuaily
Attaline					ug/J	Quarterly
Authracene	ND				ng/l	Quarterly
Arcotor 1248	CIN				ng/l	Quarterly
Arcotor 1254	NID				ng/:	Quarterly
Aroctor 1016	ND				ng/L	Quarterly
Aroctor-1221	ND				ا/يرم	Quarterly
Arceter-1232	ND				ng/l	Quarterly
Ametor-1242	ND				ng/l	Quarterly
Arnetor-1260	- ND				ng/l	Quarterly
Aroctor-1262					ng/I	Quarterly
Azobenzene					ng/l	Quarterly
Brozece	ND				ug/1	Quarterly
Benzidine	ND				ng/:	Quarterly
Benzo (a) Anthracene	ND			"	ng/l	Quarterly
Renzo (a) pyrene	ND				ng/l	Quarterly
Benzu (b) Fluoranthene	ND				ng/I	Quarterly
Henzo (c) pyrene	ND			_	пдЛ	Quarterly
Bonzo (g,h,i) Perylene	ND				78/I	Quarterly
Benzo (k) Fluorunthene	ND				րբՈ	Quarterly
Beozo (k) Pyrene				1	ng/l	Quarterly
Benzenie Acid					ug/I	Quarterly
Benzyl Alchol			_		ug/l	Quarterly
Beta-BHC	ND				ng/l	Quanterly
Biphenyl					ng/l	Quarterly
Bis (2-chloroErhoxy)methane	ND				ng/J	Quarterly
bis(2-chloroethyl)cther	CIN				пуЛ	Quarterly
bis(2 ethyhexyl) phthalate	272.0				บลิป	Quarterly
Bis(2-Chloroisnpropy)) Ether	ND				ng/l	Quarterly
Bis(-Chlurocthoxy) Mediane	ND			·-	ng/l	Quarter y
Bromobenzene					ug/l	Quarterly

					Direquency
	ļ			•	of [
Constituent & Date of Sample		Concentration		Units	Analysis
			<del></del>	2.1110	T Eladiy
Darc	5/7/03	[.	İ		
Bromochloromethane				นยูกั	Quarterly
Bromodichloromethane	ND			tig/L	Quarterly
Βιοποίοπο	ND			الورن	Quarterly
Bromnmethane	ND			ug/l	Quarterly
Butyl-Benzyl Phthalate	ND			ng/l	Quarterly
c-1.2-Dichloroethane				บยู/ไ	Quarterly
c-1,3 Dichloropropene	ND.			ug/I	Quarterly
Carbon disulfide				cg/l	Quarterly
Carbon Tetrachloride	NĐ		$L_{\overline{}}$	ag/l	Quarterly
Chlordane				ng/]	Quarterly
Chlordane-alpha	ND			ng/A	Quarterly
Chlordane-gamma	ND			arg/I	Quarterly
Chlorethane	ND			ug/l	Quarterly
Chlorium	ND			ug/l	Quarterly
Chlomichane	ND			ug/I	Quarterly
Chlorobanzane	ND			(lg/l	Quarterly
Chlorodane-alpha	ND			ug/l	Quarterly
Chorodane-gamma	ND			ug/l	Quarterly
Chrysene-	ND			ng/l	Quarterly
Delta-BHC	ЙD			l\ga	Quartetly
Dibonz (a,h) Anthracene	ממ			ng/l	Quarterly
Dibenzofuran				ug/l	Quarterly
Dibromochloromethane	NT)			129/]	Quarterly
Dibromomethane			L :	ng/l	Quarterly
Dichlorodiflouromethane		"	$\Gamma$	ug/I	Quarterly
Dieldrin	ND			ng/i	Quarterly
Diethyl Pthalatel	ND			ag/l	Quarterly
Dimethyl Phthalate	ND			ng/l	Quarterly
Di-n-Butyl Phthalate	MU			ng/L	Quarterly
Di n Octyl Phthalate-	ND			กฏไ	Quarterly
Endosulfan I	ND			ng/l	Quarterly
Endosultan II	ND		"	ng/l	Quarterly
Endosulfan Sulfate	ND		[ 1	ng/l	Quarterly
Findrin	עע			ng/J	Quarterly
Endrin Aldehyde	ND			ng/l	Quarterly
Endrin Ketone				ng/l	Quarterly
Ethylbenzene	ND			րջՈ	Quarterly
Fluorantizene	ND			ng/l	Quarterly
Fluurene	ND			ng/l	Quarterly

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					Virgouanas
				İ	Prequency of
Constituent & Date of Sample		Concentration		Units	Analysis
Colonidada a Linio di Batapao	<del>1 -</del> -	CINCOLDANIA		Ошіз	71111119818
Dute	5/7/03		<del></del>	<del>                                     </del>	Τ
Gamma-BHC	- QR		<u> </u>	ng/l	Quarterly
Heptachlor	ND			ng/l	Quarterly
Heptachlor Epoxide	ND			ng/l	Quarterly
Hexachloro 1,3 Butadieue			i	. นูย/เ	Quarterly
Hexachlorobutadiene	ND			ng/l	Quarterly
Hexachlorobenzene	ND			ng/I	Quarterly
Hexachlorocyclopentadiene	ND			пул	Quarterly
Hexachloroethane	ND	<u> </u>		ng/J	Quarterly
Indeno (1,2,3-c,d) Pyrene	ND			ng/I	Quarterly
Isuphonme	ND			_ug/1	Quarterly
Isopropylbenzene		·	L.	ug/J	Quarterly
Methoxychlor	ND	<u> </u>	[	ng/l	Quarterly
Methylene chloride	NO	:		ug/l	Quarterly
Methyl-tert-Butyl Ether				l ug/l	Quarterly
Mirex	ND			ng/l	Quarterly
Napthalene	ND			ng/l	Quarterly
n-Butylbenzene				ug/l	Quarterly
Nitrobenzege	ND			1(2)]	Quarterly
Nitrate-N				mg/L	Annually
N-Nitrusodimethylamine	ND			лрЛ	Quarterly
N-Nitroso-di-n-prophylamine	ND	<u> </u>		ng/I	Quarterly
N-Nitrosodiphenylamine	ND .			ng/l	Quarterly
n-Propylbenzene				ug/l	Quarterly
o-Xylene				ug/t	Quarterly
p/m-Xylene	1			ug/l	Quarterly
Pentachlorophenol	ND			ng/l	Quarterly
Perylene				ng/l	Quarterly
Phenanthrene	ŊĐ			ng/l	Quarterly
Phenol	ND			ng/I	Quarterly
p-1sopropyltolucue				119/1	Quarterly
Pyrone	ND)			ηд/П	Quarterly
Pyridine				ւթյ	Quarterly
sec-Butylbenzene				цу/[	Quarterly
Styrenc				ug/l	Quarterly
t-1,2-Dichloroothene	ND			ug/l	Quarterly
t-1,3-Dichloropropena	ND			ug/l	Quarterly
tert-Butylbenzene				ug/l	Quarterly
TetrachJoroethane	ND			บย/เ	Quarterly
Total Cyanide	ND			mg/L	L]

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				1	Frequency
<u> </u>				- 1	of
Constituent & Date of Sample	<u> </u>	Conce	ntration	Units	Analysis
Date	5/7/03		<del>                                     </del>		
· · · · · · · · · · · · · · · · · · ·			<u> </u>		
Totak Detectable PAHs	0.0		<u> </u>	ug/l	Quarterly
<u>l'oule</u> ne	ND			புத/7	Quarterly
Toxaphene	ND			ηθία	Quarterly
ttans-Nonachlor	ND		!	ng/1	Quarterly
Trichtoroethene	ND			աց/ն	Quarterly
Trichlorofluoromethane			T I	ug/l	Quarterly
Vinyl Acctate	<u>'</u>			U <u>9</u> /1	Quarterly
Vinyl Chloride	ND			ນຊ/ໄ	Quarterly
Xylenes	ND			ug/l	Quarterly

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# EPA Form 2C Requested Permit Changes

## EPA FORM 2C ATTACHMENT 3

### **Requested Changes to the Permit**

El Segundo Generating Station requests the Regional Board add the following findings as defined below to the forthcoming 2005 Order.

#### **Desalination Pilot Plant:**

As discussed in Section 3.0 of the Facility Operation Description, in May of 2002, the California Regional Water Quality Control Board, Los Angeles Region, approved the installation and operation of the seawater desalination pilot plant as proposed by West Basin Municipal Water District (West Basin). In May 2002, West Basin initiated seawater desalination operations and testing in accordance with the conditions set forth by the Regional Board in a letter dated May 16, 2002.

The Regional Board approved the use of 30 gallons per minute (gpm) (.043 MGD) of seawater from the cooling water intake to microfiltration and reverse osmosis units. The seawater is separated into two components; pure water and waste brine. Each of the separated streams constitutes 50% of the intake flow (15 gpm of pure water and 15 gpm of brine). The brine and reverse osmosis permeate is returned into the power plant's cooling water intake. Chemicals such as sodium hypochlorite, ammonium hypochlorite, and antiscalant are added to the influent water to enhance the removal efficiency of dissolved solids during desalination. The total amount of chemicals added have very little impact to the cooling water flow and the Desalination Pilot Plant operation does not constitute a material change to the power plant's outfall. Therefore, in accordance with the letter set forth by the Regional Board dated May 16, 2002, the NPDES permit did not need to be reopened and a separate NPDES permit was not required for the Desalination Pilot Plant.

In addition to the Desalination Pilot Plant, a pipe loop corrosion study associated with the seawater from the Desalination Pilot Plant was approved by the Regional Board on April 12, 2004. In accordance with the conditions set forth by the Regional Board, this study is designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel and brass) and to demonstrate that seawater-derived potable water is stable, non-corrosive, and does not present any health risks.

EL SEGUNDO GENERATING STATION NPDES PERMIT (NO. CA0001147) RENEWAL APPLICATION – SEPTEMBER 13,2004

Three blends of water are tested:

- 100% stabilized RO permeate
- 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water
- 100% MWD water

Each water source and metal type is tested in triplicate which results in 27 pipe loops, each with an approximate volume of one liter of water. The pipe loops are designed to take pre-treated water from the existing micro-filtration (MF) pilot plant; therefore requiring no additional pumping of raw seawater. In addition, the second RO pilot plant is sized so that it produces enough water to supply the pipe loops. The pipe loops operate on a cycle intended to simulate household flow patterns with the water stagnated in the pipes for 23 hours and flowing at 1 gallon per minute (gpm) for 1 hour. Due to the lack of enough water supply by the MF and RO units for simultaneous operation of all the pipe loops, the maximum flow rate and discharge from the pipe loops is approximately 9 gpm with staggered operation of the individual pipe loops.

The total flow from the study is approximately 1,620 gallons per day. Since low concentrations of metals will be observed in the pipe loop discharge, the water is sent to the retention basin at the El Segundo Generating Station prior to being discharged with the cooling water. However, the RO permeate is conditioned to mitigate metal release and produce water that is suitable for potable use.

The quantity of loop study water discharged is relatively small (the minimum condenser coolant flow is approximately 100 million gallons per day, contributing 0.000162%) and the leachate containing regulated metals, has negligible to undetectable contribution to the metals discharge of the power plant. Accordingly, the Regional Board approved the study and determined that the operation will not constitute a material change for the NPDES permit issued to El Segundo Generating Station (letter dated April 12, 2004). Permission has been granted by the Regional Board to conduct the study for a period of one year (expiration date: May 31, 2005).

As discussed in Section 3.0 of the Facility Operation Description, on August 6, 2004, West Basin submitted a request to the Regional Board to continue desalination pilot operation at the El Segundo Generating Station on warm water from the power plant's effluent water (Conduit 2) rather than the current intake water source. The purpose of this request is to evaluate the expected energy savings and equipment footprint reduction from operation on warm water. A second pre-treatment unit employing ultra-filtration, requiring an increased intake flow rate of

up to 80 gpm, was also proposed to be brought on site for comparison to the microfiltration technology. All of these study parameters are estimated to extend through December 2006; therefore as indicated in this letter, West Basin requests the Regional Board's permission to operate with the additional flow needs in the requested time extension.

#### Retention Basin Biological Growth Control:

As discussed in Section 1.0 of the Facility Operation Description, in order to control biological growths (algae), the retention basin is intermittently treated by addition sodium hypochlorite. In addition to this, an algae eating product containing diatomaceous earth is also added to the retention basin. Other techniques such as mechanical treatment using vacuum trucks and oil skimmers are also applied at the Retention Basin. The corresponding MSDS sheets are included in this attachment.

# **Incidental Runoff:**

El Segundo Power, LLC uses recycled water that has received tertiary filtration for pathogen removal for irrigation purposes as specified under Title 22 guidelines. This recycled water applied for irrigation is intended to remain on the irrigated areas. Even though incidental runoff of minor amounts of recycled water can be minimized, it cannot be fully prevented. Similarly, it is not possible to completely prevent the runoff of rainwater from areas irrigated with recycled water. El Segundo Generating Station is designed and operated to avoid runoff to waters of the State (Pacific Ocean - Santa Monica Bay). Occasional incidental discharge does not unreasonably affect the beneficial uses of the water and does not result in exceeding applicable water quality objectives in the receiving waters as indicated in Regional Board's "Incidental Runoff of Recycled Water" dated February 24, 2004.

#### Sanitary Waste Treatment Plants:

The Sanitary Waste Treatment Plants employs biological nitrification process in order to effectively remove Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS) from the incoming sewage. Key factors which affect the nitrification process are nitrogen concentration, BOD concentration, alkalinity, temperature, and potential toxic compounds. Since the natural alkalinity of the incoming sewage is insufficient for acid production during the energy yielding oxidation process of biological nitrification at the Waste Treatment Plants 1 and 2, low pH levels and a detrimental effect on BOD and TSS removal is resulted. El Segundo Power, LLC is requesting the Regional Board's permission to increase the alkalinity of the incoming sewage by installing a sodium bicarbonate (baking soda) feed system. Based on historical observations, a sodium bicarbonate demand of approximately 1 to 5 pounds per day is adequate for the sodium bicarbonate feed system.

Water saturated with sodium bicarbonate will be fed into the activated sludge process on a timed basis to maintain the alkalinity above 100 mg/l. using a "saturator". The saturator will be a 55 gallon drum outfitted with an automatic water valve controlled by a programmable logic controller (PLC), and a water diffuser that disperses supply water at the bottom of the drum. The drum will be kept full of water to the overflow point and have about 24 inches of reserve powdered sodium bicarbonate sitting at the bottom. Automatically opening the automatic fill valve on a timed basis such as 15 seconds every hour will introduce small amount of fresh water that will become saturated with sodium bicarbonate at the bottom of the drum, while simultaneously pushing an equal quantity of already saturated water out the overflow and into the activated sludge process. Powdered sodium bicarbonate will be manually replenished as needed based on the level in the bottom of the saturator. The corresponding sodium bicarbonate MSDS sheets are included in this attachment.

#### Foam Generation:

As indicated in Section 1.0 of the Facility Operation Description, an application for a permit to replace Units 1 and 2 with new generating units is pending approval at the California Energy Commission. The Intake No. 1 cooling water system for Units 1 & 2 continues to operate for cooling, treated sewage discharge, and maintenance purposes at the existing facility. However, Intake No. 1 is currently operating at relatively lower flow levels, contributing to the naturally occurring generation of foam at Discharge Serial Number 001. Rather than mechanically removing the foam, El Segundo Power, LLC proposes to spray seawater over open areas of the discharge to prevent the foam from being formed in the first place. By this permit renewal application, El Segundo Power, LLC requests the Regional Board's approval in using seawater to prevent foam generation.

#### MATERIAL SAFETY DATA SKEET

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Crossion Date 300
Binationee Inc. Review Date. 7002

1550 Valley Center Parkway, Suite 140

Nasaldran, PA 18017 - Internation Phone Number: 900-627-3068 - 6mapping Phone Number - 600-454-5300

Commercial Product Name: MICROFATS-All Pond and Lake Treatment

(Transical Characterization)

#### SECTION II - COMPOSITION AND INFORMATION ON INCREDIENTS

Hazardous Ingrest criters By w. I. CAS Number TLV (ACCUB). PEL (OSHAD)

Doumnie #20 (6)89-66-) 26 mpin 5 mpin 5 mpin (5)polaine silica | 05.2 | 14505-65 7 | 0.1 mpin 9 | 0.1 mpin 9

Nier-Invandous Digredients.

Microbookaid enrymes

edvorted on wheat time 689(9.05.5 10 mg/m² (noisener shatt)

Cylon Tec From Greatle Fetalet Utin: Mild Oson

# SECTION 111 - HAZARD IDENTIFICATION AND FIRST AIR PRINCEDURES

EVHALATION: May expect impation of respiratory tradit. Avoid engaginguistic handling which may result in disc generation. If

exhalse, remove train contaminates area to final size. Report situation. Such makes attenues if alleges required

exhibitral.

(AV) (CM) AC1: May cause eye improy. In case of carrier with type, floor eyes with low preserve water for at least 15, annates and

seek medical -memori.

SKIR CONTACT: It is present to the protocolar and discrete content with start be expected. In case of content with skin, with with

soap and water. Remove comminated clashing and work

SWALLSWING: Ingenion of material may coper general distintions of Ill swallowed, three season and those with tap water.

#### SECTION BY PIRE PIGHTING MEASURES

rüsch Pränt - Nor Available - Expossible Limits - Mat Available

Settings string Median Dry thermost, cortional wide, water spray or Cook.

### SECTION V - ACCIDENTAL RELEASE MEASURES

APPER SPILLAGE: Spilled gredie; droppd by removal immediately to avoid formation of due. Since in suitable contained. Wash

diese with water. Dispose to landfill. Provide sofficioni population

(1850) All In case of cueract with skin, wash with graph staff value. If symptoms obsert, seek modulal attention. In case of motion with eyes, since with clearly of water for at least 12 minuton and set an eye specialist if imitation persists. In

montant with eyes, since with plainty of water for all kids. 12 minutest and set an eye specified it minimum persons. To case of ingestion, drink water. It symptoms occur, seek medical

essistance.

## SECTION VI- PERSONAL PROTECTRUMHANDLING AND STORAGE

THE HENCAL PROTECTIVE MEASURES.

About Lemanico et this. Provide adequing consisting of the people whee handling this product. Provide eyewas a capability.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT.

RESPIRATORY PROTECTED N. Diec stack

SKIN PROTECTION: Wear long-sleeve shirt, tractions, safety shoes, gloves

EYE PROTECTION: Safety pogeties

INDUSTRIAL HYGIENEY Maurour good Powereeping. Avail desty condutions. Wish hands and exposed kin after connect

Avoid contact with food or food preparation surfaces. Homove and wast, contaminated of othing

PROTECTION AGAINST FIRE AND EXPLOSIONS: No special requesioners

### SECTION VII - PHYSICAL PROPERTIES

Schighity in Warger + 10.9 of product is water subtile Alternative Solvent - NA PR Value (15, vol.) NVA

### SECTION VIII TOXICOLOGICAL INFORMATION

Inhalation or dust resulting from inappropriate Randling may deute respiratory allergy in seatogaible individuals

Continuuministy: Osystaliana silian probably continuumini NOF x IARC Menographs: x OSHA Regulated:

### SECTION IX - INFORMATION ON ECOLOGICAL EFFECTS

Application of product represent tringing water marks shall be presented included attended to concern the Application of Production of the

### SECTION X DISPUSAL CONSIDERATIONS

Disposabili Dispose of the accondance with current local withority regulations.

# SECTION XI - TRANSPORT CLASSIFICATION

(OT Hashi Cass - NA

DOTES. NA

DOT Pages Stopping Name: Chemicals not other wise indexed (NOI) not 4 southway

# SECTION XII - RECULATORY INFORMATION

# SECTION XIII - FURTHER INFORMATION

The information contribed in the Sefery Usta Shoot, so of the issentiate, is believed to be true and content. The accountry or completeness of the information and any meconomications are suggestions are mode without warranty or grazimize. Since the conditions of use employed the control of one company, it is the responsibility of the user to determine the excitations of sate use of this product. The afformation in this vices does not represent analytical specifications; for this information contact Bioscience, Inc. Technica, Department.



ISO 9002 CERTIFIED

Wastewater Analysis/Biotreatment The Best of Both Worlds

Bioscience Inc.
Bioscience@BioscienceInc.com
(610) 974-9693 or (800) 627-3069
Fax 610) 691-2170
1550 Valley Conter Parkway, Suite 140
Bethicheir, PA 18017

# MICROCAT® - AL

# POND AND LAKE TREATMENT

# DESCRIPTION:

MICROCAT-AL Bioformula for Pond and Lake Treatment is a synergistic blend of preselected, adapted microorganisms for use in maintaining the clarity in water receiving bodies including lakes, flsh farms, facultative legoons, polishing ponds, etc. and in other slow-moving water channels. It is not recommended for controlling slime buildup on surfaces or for controlling plants and weeds. MICROCAT-AL is available in various forms suited to a wide variety of applications for suspended solids.

# APPLICATIONS:

Treatment systems handling municipal, commercial, fish-farming, industrial and food processing wastes from time to time encounter difficulties in achieving desired effluent quality (especially excess suspended solids). This is especially true in sunny, warm climates MICROCAT-AL is formulated with natural microbes and flocculant aids for pond and lake maintenance. MICROCAT-AL contains a combination of aerobic and facultative anaerobic microorganisms selected from nature for their ability to maintain clarity in used waters and to prompt settling of solids in slow moving, shallow water bodies.



# PRODUCT CHARACTERISTICS:

Appearance	Light beige, granular powder
Contents	Natural, preselected, adapted microorganisms and flocculant aids
Nominal Microbe Count	>3 x 10 <sup>9</sup> / gram
ShelfLife	Two Years
Packaging	25 Lb (11.3 Kg) plastic pails/220 Lb (100 Kg) fiber drums

# APPLICATION PROGRAMS:

In general, **MICROCAT-AL** is applied directly to the water body on a regular, preventive maintenance basis for controlling finely divided suspended solids. It is not recommended for controlling slime layers on surfaces or for weeds and/or plants or stagnant pools. Application programs range from about 25 pounds (11.3 kg) per MGD (3785 m³/day) per day for quick system recovery to one pound (0.45 kg) per MGD (3785 m³/day) per day for prevention. Your Bioscience, Inc. Technical Representative will provide you with a custom tailored application program to fit the specific needs of your treatment system.

# OPTIMAL APPLICATION CONDITIONS

For best results, apply this product under the following conditions:

CONDITION	RANGE	ОРТІМИМ
Dissolved Oxygen, ppm	0 - Saturation	0.5+
pH	6-9	7
Temperature, <sup>0</sup> C	10 - 40	35
Toxic Heavy Metals, ppm	Trace	Trace

If your system is operating outside these ranges, contact your Bioscience Inc. Technical Representative for a complete system survey and recommendations.

# STORAGE AND HANDLING

Storage	45° - 105° F (7° - 40° C) Dry conditions, DO NOT FREEZE.
Handling	CAUTION Active enzymes present. Avoid inhalation of dry powder or liquid mist. Avoid exposing skin to dry powder or strong solution as irritation may result. If material contacts skin or eyes, flush thoroughly and repeatedly with water.

MICROCAT is a registered trademark of Bioscience, Inc.

DISCLAIMER: The information contained in this data sheet is a guide to the use of MICROCAT products and is based on tests and other information believed to be reliable. All information is given to and accepted by user at user's risk and confirmation of its validity and suitability to particular cases should be obtained independently. Bioscience line, makes no guarantee of results and assumes no obligation or liability in connection with the information contained herein. Bioscience, Inc. does not warrant against infringement of, and this data sheet is not to be construed as a license to operate under, any patents.

# BIOSCIENCE, INC.

1550 Valley Center Parkway, Suite 140 - Bethlehem, PA 18017 - (610) 974-9693 - Fax (610) 691-2170

E-mail: bioscience@bioscienceinc.com - Website: www bioscienceinc.com



ISO 9002 CERTIFIED

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# MATERIAL SAFETY DATA SHEET

Sudium Bicarbonate



MSDS Ref. No.: 144-55-8 Date Approved: 01/26/2004

Revision No.: 3

This document has been prepared to meet the requirements of the D.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and, the EC Directory, 2001/58/EC.

# 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Sodium Bicarbonate

SYNONYMS: Baking Soda, Bicarbonate of Soda

GENERAL USE: Leavening agent, cleaner ingredient, bath salt ingredient, water

softener, diapor rinse angredient, feed neditive.

This cliemical is certified to ANSI/NSF Standard 60, Drinking Water Chemicals-Health Effects (as packaged in the original, unopened container). The maximum dosage level for this chemical is 100 mg/l.

# MANUFACTURER

FMC Wyeming Comporation Affact Chemicals Division 1735 Market Street Phyladelphia, PA 19103 (215) 299-6300 (General Information)

### EMERGENCY TELEPHONE NUMBERS

(800) 424-9300 (CHEMTREC - U.S.) (303) 595-9048 (Medical - Cal. Celtrei)

(307) 872-2452 (Plant - Green River, WY)

# 2. HAZARDS IDENTIFICATION

# EMERGENCY OVERVIEW:

- White, adorless, granular solid.
- "toduct is non-combustable."
- Reads with acids to release carbon diskide gas and heat.

POTENTIAL HEALTH EFFECTS: No significant bealth effects inticipated

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

				T——
Chemical Name	CAS#	Wt.%	EC No.	LC Class
Sodium Bicarbonate	144-55-8	100	205-633-8	Not classified as hazznlous

# 4. FIRST AID MEASURES

EYES: Thish with plenty of water. Ger medical attention of irritation occurs and persists.

SKIN: Wash with plunty of scop and water. Get medical attention if irritation occurs and possists.

**INGESTION:** Drink plenty of water. Never give saything by mouth to an unconscious person. If any disconfort persests, obtain medical attention.

INHALATION: Remove to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention

NOTES TO MEDICAL DOCTOR: Internal toxicity is low. Trenment is symptomatic and supportive

# 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water, water fog, carbon disoide (CO<sub>d</sub>), dry chemical

FIRE / EXPLOSION HAZARDS: None

FIRE FIGHTING PROCEDURES: Near

FLAMMABLE LIMITS: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Name

SENSITIVITY TO IMPACT: None

SENSITIVITY TO STATIC DISCHARGE: None

# 6. ACCIDENTAL RELEASE MEASURES

**COMMENTS:** PERSONAL PRECAULIONS: Refer to Section 8 "Exposure Controls / Personal Protection".

Date: 01/26/2004

CLUAN-CP: This product, if griffed, can be recovered and re-used if contamination does not present a problem. Vacuum or sweeping the material. If the spilled product is unusable due to contamination, consoli state or federal environmental agencies for acceptable disposal procedures and locations. See Section 13 "Disposal Considerations".

NOTIFICATION REQUIREMENTS: Federal segulations do not require notification for spills of this product. Store and local regulations may nontain different requirements; consult local authorities.

# 7. HANDLING AND STORAGE

**HANDLING:** Use air conveying/mechanical systems for bulk transfer to storage. For marical namiling of bulk transfer use mechanical ventilation to remove airbarae dust from sailear, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generated.

STORAGE: Store in a cool dry side, away from apids.

**COMMENTS:** Use general more dilution or inval exhaust vontilation when excessive dust is expected in the work control open.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Where possible, provide general mechanical anil/or local exhaust ventilation to prevent release of airborne dust into the work environment.

# PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Appropriate eye and face protection equipment (ANS) Z87 approved) should be selected for the particular use intended for this material. Safety glasses with side shields are recommended.

**RESPIRATORY:** Whenever dust in the werker's breathing zone connor be controlled with ventilation at other engineering means, workers should west respirators of dust masks approved by NIOSH/MSHA. EU CEN or comparable conflication organization to protect them against airborne dust.

**PROTECTIVE CLOTHING:** Dry product is generally non-arritating to intact skin. However, this product can be irritating where skin has been damaged and can occase skin irritation.

after long exposures when indisture is present. Linder such conditions, gloves and long-sleeved clothing are recommonded to minimize skill contact.

Date: 01/26/2004

### COMMENTS:

ADDITIONAL EXPOSURE GUIDELINES:

Federal guidelines treat the ingredient(s) in this product as a nuisance dust, as no product specific guidelines have been issued for exposure. As with all nuisance dusts, worker breating zone concentrations should be measured by validated sampling and analytical methods. The following limits (OSHA and MSNA) apply to this material:

Particulates Not Otherwise Regulated: OSHA (PEL / TWA): 15 mg/m² (total dust); 5 mg/m² (resp fraction) MSHA (PFL / TWA): 10 mg/m² (total dust)

The information unterliabate provides general guidance for handling this product. Specific work environments and insterial handling practices will distant the selection and use of personal protection equipment (PPH).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Odorless

APPEARANCE: White, granular solid.

AUTOIGNITION TEMPERATURE: Not applicable

BOILING POINT: Not applicable

CORFFICIENT OF OH, / WATER: Not available
DENSITY / WEIGHT PER VOLUME: 0.85 g/ml.

EVAPORATION NATE: Not applicable (Buryl Acetate = 1)

FLASH POINT: Non-combusable

MELTING POINT: Decomposes

ODOR THRESHOLD: Not applicable

OXIDIZING PROPERTIES: Not applicable

PERCENT VOLATILE: Not available

pH: 8.3 (1% solution)

**SOLGBICITY IN WATER:** % by wt. @ 20°C (68°F) 9.0

SPECIFIC GRAVITY:  $(H_2O - 1) 2.20$ 

VAPOR DENSITY: Not applicable (Az = 1)

VAPOR PRESSURE:

Not available

Date: 81/26/2004

# 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Concact with saids except under controlled

conditions

STARILITY: Stable

POLYMERIZATION: Will not occur

INCOMPATURE WATERIALS: Reads with ands to release eather, directle gas and

ltcaL

HAZARDOUS DECOMPOSITION PRODUCTS: None

# 11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Non-irritating (rabbit) 1, Amer. Coll. Toxicol. 1987

SKIN EFFECTS: Non-imitating (rabbit) 1. Amer. Call. Toxical. 1987

DERMAL LD<sub>50</sub>: No data available for the product.

ORAL LD<sub>50</sub>: 20% slorry: 4,300 mg/kg (rat)

50 % singly, 6,000 mg/kg (rax)

Gosseliu, Smith & Hodge, Climbal Tox of Comm. Products, 1984

**INHALATION J.C.** So data available for the product.

TARGET ORGANS: None

ACUTE EFFECTS FROM OVEREXPOSURE: This product, when dry, is generally mosticitating to finant skin. However, when muisture is present, it can be irritating to damaged skin and can create irritation after long exposures. This product is approved for use as a feed ingredient and is Generally Renognized As Salle (GRAS). No significant acute toxicological effects expected.

CHRONIC EFFECTS FROM OVEREXPOSURE: Administration of large doses of sodium bivarbunate to patients with renal inserficiency can produce systemic alkaloses.

# CARCINOGENICITY:

NTP:

Not Ested

IARC:

Not listed

OSHA:

Not listed

OTHER:

(ACGIH) Not listed

# 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** 48 hr LC<sub>91</sub> = 2000 mg/L (Culex sp. larvae or mosquite)

CHEMICAL FATE INFORMATION: No data available for the product.

# 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** When this product is discarded or disposed of, as purchased, it is notified a characteristic nor a listed hozardeds waste according to 1/S Federal RCRA regulations (40 CFR 261). As a non-hazardous waste the material may be disposed of in a landfill in accordance with government regulations; check local or state regulations for applicable requirements once to disposal. Any processing, usage, alteration, chemical additions to, or contamination of, the product may after the disposal requirements. Under Federal regulations, it is the generator's responsibility to determine if a waste is a marardous waste.

# 14. TRANSPORT INFORMATION

# U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME:

Not regulated

PRIMARY HAZARD CLASS / DIVISION:

Not applicable

UN/NA NUMBER:

None

LABEL(S):

Not suplicable

PLACARD(S):

Not applicable

MARKING(S):

Not applicable

ADDITIONAL INFORMATION:

Hazardous Sebarance/RQ: Not applicable

Date: 01/26/2004

49 STCC Number, Not applicable

# INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG).

ADDITIONAL INFORMATION:

Not regulated

# ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD

ADDITIONAL INFORMATION:

Not regulated

# 15. REGULATORY INFORMATION

# UNITED STATES

SARA TITLE HI (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY RAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):
Not listed

# SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.: No TPQ for this product

### SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):

No: applicable

18CA (TOXIC SUBSTANCE CONTROL ACT)

ISCA INVENTORY STATUS (40 CFR 710): Listed

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)
RCRA IDENTIFICATION OF BAZARDOUS WASTE (40 CFR 261):

Waşte Nember - Refer to Section 13 "Disposal Considerations" for RCR 4 status.

Date: 01/26/2004

# CANADA

# WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

Product Identification Number. Name Hazard Classification / Division: Name Ingredient Disclosure Light Not Ested

# COMMENTS:

CLEAN WATER ACT (CWA) - SECTION 307 / 311 Not listed as a liezardous pollutant (48 CPR 116), nor as a toxic pollutant (40 CPR 401.15).

CLEAN ATRIACT (CAA) - SECTION 112 Not regulated under the chemical applicant prevention provisions (40 CFR 68)

# 16. OTHER INFORMATION

### **FLM IS**

Health	j a
Flammability	, ü
Physical Hazard	0 '
Personal Protection (PPE)	Ь

Protection = P. (Safety glasses and glaves)

HMIS - Hazardous Materials Identification System

# Degree of Hazard Code:

- 4 Severe
- 3 = Senaus
- 2 Mederato
- 1 · Sheht
- 0 Minimal

### NFPA

Fleath Flammobility	0 0
; Reactivity	U
Special	None

No special regionements

MFPA - National Fire Protection Association

### Degree of Hazard Code:

- 4 Екпете
- 3 High
- 2 Moderate
- I = Slight
- 0 Insignificant

### REVISION SUMMARY:

Changes in information are as follows. New Fermat, as well as text changes and/or updates to one or more Sections of this MSDS.

Date: 31/26/2004

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ORT NUMBER: 703 UNIVAK USA INC.
MATERIAL SAFETY DATA SHEET PAGE: 001

NFRAME UPLOAD DATE: 07/26/04 VERSION: 018

IDUCT: LIQUICHLOR / SDDIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

ONDCO NALCO CO C/O EL SEGUNDO POWER LLC 301 VISTA DEL MAR

EL SEGUNDO ,CA 90245

VAR USA INC. (425)889-3400 O CARIJION POINT , KIRKLAND , WA 98033

OR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL - CHEMIREC (860)424-9300

DUCT NAME: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

S NUMBER: 0X622680

ECTIVE DATE: 2/16/2004

ERSEDES: 1/15/2003

UED BY: 00/427

TION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DUCT NAME: SODIUM HYPOCHLORICE SOLUTION (9 - 16%)

#: 7681-52-9

ONYMS: SODIUM HYPOCHLORITE SOLUTION - TRADE % (9 - 19), BLEACH, JAVEL ER, CLOROX, SUNNY SOL 150, [[QUID CHLORING SOLUTION, LIQUID BLEACH.

DCHLORITE BLEACH, HYPO

DUCT USE: BLEACH, DISINFECTANT

RGENCY CONTACTS (24 HR.)

DR INFORMATION REGARDING ON SITE CHEMICAL EMERGENCIES INVOLVING A SPILL LEAK, CALL

.: 1-800-424-9300 - CHEMTREC ADA: 1-613-996-6666 - CANUIEC

RIBUTED BY:

ORT NUMBER: 703 UNIVAR USA INC.
IS NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 002

NFRAME UPLOAD DATE: 07/26/04 VERSION: 018

DUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

VAR USA INC. 0 CARILLON POINT KLAND, WA 98033 -889-3400

TION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

DAS ND. ARDOUS INGREDIENT(S) % (W/W) ACGIH OSHA NOT ESTABLISHED NOT 9 - 16 SODIUM HYPOCHLORITE 7681-52-9

D.5 PPM ESTABLISHED

(AS CHLORINE)

0.3 - 4IUM HYDROXIDE 2 MG/M3 (CEILING) 2 MG/M3 1310-73-2

# TION 3 HAZARD IDENTIFICATION

RGENCY OVERVIEW: CORROSIVE! CONTACT WITH ACID LIBERATES TOXIC CHLORINE .. CAUSES BURNS TO SKIN, EYES, RESPIRATORY TRACT AND MUCOUS MEMBRANES. MFUL OR FATAL IF SWALLOWED, MAY CAUSE SENSITIZATION BY SKIN CONTACT. IC TO AQUATIC ORGANISMS. READ THE ENTIRE MSDS FOR A MORE THOROUGH LUATION OF THE HAZARDS.

ENTIAL HEALTH EFFECTS:

ALATION: MIST CAN IRRITATE THE NOSE AND THROAT. IF MIXED WITH ACIDS, OCHLORITE SOLUTIONS RELEASE LARGE AHOUNTS OF CHLORINE GAS. THIS GAS CAN SE SEVERE IRRITATION OF THE NOSE AND THROAT. EXPOSURE TO HIGH LEVELS OF ORINE GAS MAY RESULT IN SEVERE LUNG DAMAGE.

N CONTACT: SODIUM HYPOCHLORITE MIST AND SOLUTIONS CAN CAUSE SKIN ITATION. IN SEVERE CASES, CHEMICAL BURNS MAY RESULT,

CONTACT: CAN CAUSE SCYERE GYE IRRITATION AND PERMANENT EYE INJURY. ESTION: MAY CAUSE IRRITATION, PAIN AND INFLAMMATION OF THE MOUTH AND MACH, VOMITING, SHOCK, CONFUSION, DELIRIUM, COMA AND, IN SEVERE CASES, THE PERFORATION OF THE ESOPHAGUS OR STOMACH MAY OCCUR.

CHRONIC EFFECTS: SKIN: PROLONGED OR REPEATED SKIN CONTACT WITH SOLUTIONS TAINING AS LITTLE AS 4-6% SODIUM HYPDCHLDRITE CAN CAUSE ALLERGIC CONTACT MATITIS, SYMPTOMS INCLUDE CHRONIC, ITCHY ECZEMA, SENSITIZED PEOPLE CAN CT TO VERY DILUTE (0.04-0.06% NADCL) SOLUTIONS THAT TOUCH THEIR SKIN STING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: SKIN 1KKI/Alium BE AGGRAVATED IN INDIVIDUALS WITH EXISTING SKIN LESIONS, BREATHING OF ORS OR MISTS MAY AGGRAVATE ACUTE OR CHRONIC ASTHMA AND CHRONIC PULMONARY EASE SUCH AS EMPHYSEMA AND BRONCHITIS.

CINGGENICITY: SODIUM HYPOCHLORITE IS NOT CLASSIFIED AS A CARCINGGEN BY IN (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS) OR IARC TERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOT REGULATED AS A CARCINOGEN OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND NOT LISTED AS A CINUGEN BY MYP (NATIONAL FOXICOLOGY PROGRAM).

### TIDN 4 FIRST AID MEASURES

ERAL: IF YOU FEEL UNWELL SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE SIBLE).

ALATION: MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION ONLY IF

ORT NUMBER: 703 UNIVAR USA INC. IS NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 003

NFRAME UPLDAD DATE: 07/26/04 VERSION: 018

IDUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

ATHING HAS STOPPED. DO NOT USE MOUTH-TO-MOUTH HETHOD IF VICTIM INGESTED INHALED THE SUBSTANCE: INDUCE ARTIFICIAL RESPIRATION WITH THE AID OF A KET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY ICAL DEVICE, GIVE CARDIOPULMONARY RESUSCITATION (CPR) ONLY IF THERE IS NO SE AND NO BREATHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY. N CONTACT: IMMEDIATELY FLUSH SKIN WITH RUNNING WATER FOR AT LEAST 15 - 20 NUTES. UNDER RUNNING WATER REMOVE CONTAHINATED CLOTHING, JEWELRY, AND ES. IF IRRITATION PERSISTS. REPEAT FLUSHING, FOR BURNS, OBTAIN MEDICAL ENTION. DISCARD REAVILY CONTAMINATED CLOTHING AND SHOES IN A MANNER, CH LIMITS FURTHER EXPOSURE. OTHERWISE, WASH CLOTHING SEPARATELY BEFORE SE.

CONTACT: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR A MINIMUM OF 20 WIES. HOLD EYELIDS OPEN DURING FLUSHING. IF IRRITATION PERSISTS, REPEAT ISHING. DBIAIN MEDICAL ATTENTION IMMEDIATELY, DO NOT TRANSPORT VICTIM IL THE RECOMMENDED FLUSHING PERIOD IS COMPLETED UNLESS FLUSHING CAN BE ITINUED DURING TRANSPORT.

ESTION: DO NOT INDUCE VOMITING. IF VICTIM IS ALERT AND NOT CONVULSING. ISE MOUTH AND GIVE AS MUCH WATER AS POSSIBLE TO DICHTE MATERIAL. IF INTANEOUS VOMITING OCCURS, HAVE VICTIM LEAN FORWARD WITH HEAD DOWN TO ID BREATHING IN OF VOMITUS, RINSE MOUTH AND ADMINISTER MORF WATER. EDIATELY TRANSPORT VICTIM TO AN EMERGENCY FACILITY.

E TO PHYSICIANS: SYMPTOMATIC, TREATMENT AND SUPPORTIVE THERAPY AS ICATED, DO NOT GIVE ACIDIC ANTIDOTES SUCH AS JUICE, SOFT DRINK, VINEGAR, . THIS PRODUCT CONTAINS MATERIALS THAT MAY CAUSE SEVERE PNEUMONITIS IF TRATED. IF INGESTION HAS OCCURRED LESS THAN 2 HOURS EARLIER, CARRY OUT FFUL GASTRIC LAVAGE; USE ENDOTRACHEAL CUFF IF AVAILABLE, TO PREVENT TRATION. OBSERVE PATIENT FOR RESPIRATORY DIFFICULTY FROM ASPIRATION UMONITIS. GIVE ARTIFICIAL RESUSCITATION AND APPROPRIATE CHEMOTHERAPY IF PIRATION IS DEPRESSED. FOLLOWING EXPOSURE THE PATIENT SHOULD BE KEPT ER MEDICAL REVIEW FOR AT LEAST 48 HOURS AS DELAYED PNEUMONITIS MAY OCCUR. MONARY EDEMA IS LIKELY AND MAY BE DELAYED. STEROID THERAPY, IF GIVEN LY, MAY BE EFFECTIVE IN PREVENTING OR ALLEVIATING EDEMA.

TION 5 FIRE FIGHTING MEASURES SH POINT NOT APPLICABLE. NOT COMBUSTIBLE MMABLE LIMITS (LOWER) NOT APPLICABLE MMABLE LIMITS (UPPER) NOT APPLICABLE D IGNITION TEMPERATURE NOT APPLICABLE BUSTION AND IMERMAL DECOMPOSITION PRODUCTS CHLDRINE, SEDIUM OXIDE, **SEN** E OF BURNING NOT APPLICABLE LOSIVE POWER NOT APPLICABLE SITIVITY TO MECHANICAL IMPACT NOT APPLICABLE

E AND EXPLOSION HAZARDS: SODIUM HYPOCHLORITE IS A STRONG CHEMICAL DANT, BUT SOLUTIONS DO NOT SUPPORT COMBUSTION. REACTION WITH MITROGEN POUNDS, CHLOROGREANIC COMPOUNDS, OR EASILY OXIDIZABLE COMPOUNDS (REDUCING NTS) MAY BE EXPLOSIVE. THIS MATERIAL IS NON-FLAMMABLE BUT IS DCCOMPOSED.

ORT NUMBER: 703 UNIVAR USA INC. PAGE: 004
IS NO: 0X622680 MARERIAL SAFETY DATA SHEET

NFRAME UPLOAD DATE: 07/26/04 VERSION: 018

IDUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROU NO: 170260

HEAT AND LIGHT, CAUSING A PRESSURE BUILD-UP, WHICH COULD RESULT IN AN LOSION. WHEN HEATED, IT MAY RELEASE CHLORINF GAS. VIGOROUS REACTION WITH DIZABLE OR ORGANIC MATERIALS MAY RESULT IN FIRE. SEE SECTION 10. INGUISHING MEDIA: FOR LARGE FIRES USE AN ALL PURPOSE TYPE AFFF ALCOHOL MESISTANT MEDIUM EXPANSION ACCORDING TO FOAM MANUFACTURER'S RECOMMENDED HANDQUES. THE FOAM SUPPLIER SHOULD BE CONSULTED FOR RECOMMENDATIONS ARDING FOAM TYPES AND DELIVERY RAILS FOR SPECIFIC APPLICATIONS. USE BON DIOXIDE OR DRY CHEMICAL MEDIA FOR SMALL FIRES. IF ONLY WATER IS ALLABLE, USE IT IN THE FORM OF A FOG.

\*\*CIAL INFORMATION: WATER MAY BE USED TO COOL CONTAINERS OF HYPOCHLORITE OUT ON THE PROMISE OF THE COOL CONTAINERS OF THE COULD BE DONE FROM A SAFE

UTION EXPOSED TO HEAT FROM A FIRE. THIS SHOULD BE DONE FROM A SAFE TANCE SINCE CONTAINERS MAY RUPTURE. THE CONTAINERS FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK, DIKE FIRE LIBER WATER FOR LATER DISPOSAL. DO NOT SCATTER THE MATERIAL.

ITROL WATER FOR LATER DISPOSAL; DO NOT SCATTER THE MATERIAL. IE INVOLVING TANKS OR TRAILER LOADS: FIGHT FIRE FROM MAXIMUM DISTANCE OR UNMANNED HOSE HOLDERS OR MONITOR NOZZLES. DO NOT GET WATER INSIDE ITAINERS. COOL CONTAINERS WITH FLOODING QUANTITIES OF WATER UNTIL WELL ER FIRE IS OUT. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING BY DEVICES OR DISCOLORATION OF TANK. ALWAYS STAY AWAY FROM THE ENDS OF IKS.

CUATION: IF TANK OR TANK TRUCK INVOLVED IN A FIRE, ISOLATE AND CONSIDER CUATION OF DNE-HALF (1/2) MILE RADIUS.

E FIGHTING PROTECTIVE EQUIPMENT: FIREFIGHTERS SHOULD WEAR PROTECTIVE FIRMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE RATED IN POSITIVE PRESSURE MODE IN A FIRE INVOLVING THIS MATERIAL. TOXIC AND VAPORS ARE PRODUCED UPON DECOMPOSITION.

E: ALSO SEF "SECTION 10 - STABILITY AND REACTIVITY"

### TION 6 - ACCIDENTAL RELEASE MEASURES

LLS, LEAKS, OR RELEASES:

TRICT ACCESS TO AREA UNTIL COMPLETION OF CLEAN UP. ENSURE TRAINED SONNEL CONDUCT CLEAN UP.

IOVE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES). ALL IPMENT SHOULD BE GROUNDED AND NON-SPARKING. VENTILATE AREA.

R ADEQUATE PERSONAL PROJECTIVE EQUIPMENT. DO NOT TOUCH SPILLED MATERIAL. IP LEAK IF POSSIBLE WITHOUT PERSONAL RISK.

LL SPILLS: COVER WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. CLEAN NON-SPARKING YOOKS TO COLLECT MATERIAL AND PLACE IT INTO LOOSFLY ERED PLASTIC CONTAINERS FOR LATER DISPOSAL. RINSE AREA WITH WATER.

GE SPILLS: PREVENT ENTRY INTO SEWERS AND CONFINED AREAS. DIKE WITH THERT ERIAL (SAND, EARTH, EIC.). CONTACT FIRE AND EMERGENCY SERVICES AND PLIER FOR ADVICE. COLLECT PRODUCT FOR RECOVERY OR DISPOSAL BY PUMPING IT O POLYETHYLENE CONTAINERS. CONSTOER IN-SITU NEUTRALIZATION AND DISPOSAL URE ADEQUATE DECONTAMINATION OF 100LS AND EQUIPMENT FOLLOWING CLEAN UP. LECT CONTAMINATED SOIL AND WATER, AND ABSORBENT FOR PROPER DISPOSAL. PLY WITH FEDERAL, PROVINCIAL/STATE AND LOCAL REGULATIONS ON REPORTING EASES.

PORT NUMBER: 703 UNIVAR USA INC. DS NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 005

INFRAME UPLOAD DATE: 07/26/04 VERSION: 018

DDUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

ACTIVATION FOR SMALL SPILLS: HYPOCHLORITE CAN BE BROKEN DOWN BY COVERING WITH A REDUCING AGENT SUCH AS SODIUM SULFITE OR SODIUM THIOSULFATE. ACTIVATING CHEMICALS: USE SODIUM SULFITE OR DILUTED HYDROGEN PEROXIDE TO DUCE THE MATERIAL. ENSURE THERF IS NO CHLORINE RESIDUE BEFORE NEUTRALIZING THIA WEAK SOLUTION OF HYDROCHLORIC OR SULFURIC ACID. STE DISPOSAL METHODS: DISPOSE OF WASTE MATERIAL AT AN APPROVED WASTE EATHENT/DISPOSAL FACILITY, IN ACCORDANCE WITH APPLICABLE REGULATIONS, DO I DISPOSE OF WASTE WITH NORMAL GARBAGE OR TO SEWER SYSTEMS. TE: - CLEAN-UP HATERIAL MAY BE A RORA HAZARDOUS WASTE ON DISPOSAL.

- SPILLS ARE SUBJECT TO CERCLA REPORTING REQUIREMENTS: RO = 100 LBS.

CTION 7 - HANDLING AND STORAGE CAUTIONS: HAVE EMERGENCY EQUIPMENT (FOR FIRES, SPILLS, LFAKS, FTC.) ADILY AVAILABLE, ENSURE ALL CONTAINERS ARE LABELED. WEAR APPROPRIATE SONAL PROTECTION EQUIPMENT. PEOPLE WORKING WITH THIS CHEMICAL SHOULD BE PERLY TRAINED REGARDING ITS HAZARDS AND ITS SAFE USE. IDLING PROCCOURES AND LOUIPMENT: AVOID GENERATING MIST, USE SMALLEST SSIBLE AMOUNTS IN DESIGNATED AREAS WITH ADEQUATE VENTILATION, KEEP STAINERS CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS IDUES. USE CORROSION-RESISTANT TRANSFER EQUIPMENT WHEN DISPENSING. IRAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA, OUT OF PECT SUNLIGHT, STORE CONTAINERS AT 15 - 29 DEG C (59 - 84 DEG F), DO NOT TRE ABOVE 30 DEG C (86 DEG F) OR BELOW FREEZING POINT, KEEP CONTAINERS HATLY CLOSED WHEN NOT IN USE AND WHEN EMPTY. PROTECT FROM DAMAGE. VENT 'S SHOULD BE CHECKED WITH FULL PERSONAL PROTECTION. STORE AWAY FROM COMPATIBLE MATERIALS SUCH AS REDUCING MATERIALS, STRONG ACIDS, NITROGEN IPOUNDS, COPPER, NICKEL AND COBALT, USE CORROSION-RESISTANT STRUCTURAL ERIALS AND LIGHTING AND VENTILATION SYSTEMS IN THE STORAGE AREA. THIS DUCT HAS A SHELF LIFE OF UP 30 SIX MONTHS AT 60 DEG F OR LOWER. DOOR STORAGE TANKS SHOULD BE SULLABLY DIKED OR OTHERWISE PROVIDED WITH AN QUATE MEANS OF SECONDARY CONTAINMENT. APPROPRIATE SECONDARY CONTAINMENT SURES SHOULD BE TAKEN TO PREVENT SPILLS OR LEAKS FROM INDOOR STORAGE IKS AND TANK-TRUCK UNLOADING STATIONS FROM ENTERING SEWERS OR OTHER NNELS THAT DISCHARGE DIRECTLY TO A WATER BODY OR A MUNICIPAL SEWAGE TEH.

TION 8 - EXPOSURE CONTROLS T PERSONAL PROTECTION PREVENTIVE MEASURES OMMENDATIONS LISTED IN THIS SECTION INDICATE THE TYPE OF EQUIPMENT, WHICH 1 PROVIDE PROTECTION AGAINST OVER EXPOSURE TO THIS PRODUCT. CONDITIONS OF , ADEQUACY OF ENGINEERING OR OTHER CONTROL MEASURES, AND ACTUAL EXPOSURES L DICTATE THE NEED FOR SPECIFIC PROTECTIVE DEVICES AT YOUR WORKPLACE.

INEERING CONTROLS: LOCAL EXHAUST VENTILATION SHOULD BE APPLIED WHEREVER RE IS AN INCIDENCE OF POINT SOURCE EMISSIONS OR DISPERSION OF REGULATED TAMINANTS IN THE WORK AREA. VENTILATION CONTROL OF THE CONTAMINANT AS SE TO ITS POINT OF GENERATION IS BOTH THE MOST ECONOMICAL AND SAFEST HOD TO MINIMIZE PERSONNEL EXPOSURE TO AIRBURNE CONTAMINANTS. THE MOST ECTIVE MEASURES ARE THE 101AL ENCLOSURE OF PROCESSES AND THE

PORT NUMBER: 703 UNIVAR USA INC.
S NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 006

INFRAME UPLOAD DATE: 07/26/04 VERSION: 018

DUCT: LIQUICHLOR / SODIUM HYPDCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

HANIZATION OF HANDLING PROCEDURES TO PREVENT ALL PERSONAL CONTACT. IKING SHOULD BE PROHIBITED IN AREAS IN WHICH SODIUM HYPOCHLORITE SOLUTION.

STORED OR HANDLED.

ISONAL PROTECTIVE EQUIPMENT

PROTECTION: WEAR SPLASH RESISTANT CHEMICAL GOGGLES AND FULL-FACE SHIELD. NIAIN FYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. N PROTECTION: WEAR IMPERVIOUS PROTECTIVE CLOTHING, INCLUDING BOOTS, IVES, LAB COAT, APRON, RAIN JACKET, PANTS OR COVERALLS, AS APPROPRIATE, TO VENT SKIN CONTACT.

COMMENDED (RESISTANCE TO BREAKTHROUGH LONGER THAN 8 HOURS): BUTYL RUBBER, URAL RUBBER, NEOPRENE, NITRILE RUBBER, POLYETHYLENE, VITON, SARANEXTM, :PONDERTM

OMMENDATIONS ARE VALID FOR PERMEATION RATES REACHING 0.1 UG/CM2/MIN OR 1 'M2/MIN AND OVER. RESISTANCE OF SPECIFIC MATERIALS CAN VARY FROM PRODUCT PRODUCT, BREAKTHROUGH TIMES ARE OBTAINED UNDER CONDITIONS OF CONTINUOUS ITACT, GENERALLY AT ROOM TEMPERATURE. EVALUATE RESISTANCE UNDER CONDITIONS USE AND MAINTAIN CLOTHING CAREFULLY.

PIRATORY PROTECTION: A NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR HPPED WITH ACID MIST CARTRIDGES FOR CONCENTRATIONS UP TO 10 TIMES (HE USF A SUPPLIEU AIR RESPIRATOR IF CONCENTRATIONS ARE HIGHER OR UNKNOWN.

OSURE GUIDELINES PRODUCT:

IUM HYPOCHLORITE

KPLACE ENVIRONMENTAL EXPOSURE LEVEL GUIDES (WEELS) / AMERICAN INDUSTRIAL IENE ASSOCIATION (AIHA) / 2001 SHORT-TERH TIME WEIGHTED AVERAGE ; G/M3: I5 MINUTE

	SODIUM HYPOCHLORITE	CHLORINE*	SDDIUM HYDROXIDE
IH TWA	NOT ESTABLISHED	0.5 PPM	NOT ESTABLISHED
A PEL	NOT ESTABLISHED	0-5 PFM	Z MG/M3
SH IDLH	NOT ESTABLISHED	10 PPM	NOT ESTABLISHED
IH STEL	NOT FSTABLISHED	) PPM	NOT ESTABLISHED
A STEL	NOT ESTABLISHED	1 PPM AS CL?	OBHRI JEKATER TON
SH (15 MIN	. CEILING)		
	NOT ESTABLISHED	O.S PPM	NOT ESTABLISHED
IH CEILING	NOT ESTABLISHED	NOT ESTABLIS	SHED 2 MG/M3

HLDRINE MAY BE PRESENT AS A DECOMPOSITION PRODUCT.

TION 9 - PHYSICAL AND CHEMICAL PROPERTIES MICAL NAME SODIUM HYPOCHLORITE MICAL FAMILY HYPOCHLDROUS ACID SALT ECULAR FORMULA NA-0-CL ECULAR WEIGHT 74.4 EARANCE GREEN TO YELLOW, WATERY LIQUID R PUNGENT CHLORINE-LIKE ODOR 11 - 15OR PRESSURE (MM HG AT 21 DEG C(69.8 DEG F) 12 MMHG PORT NUMBER: 703 UNIVAR USA INC. OS NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 007

VERSION: 018 INFRAME UPLOAD DATE: 07/26/04

DUCT: LIQUICHLOR / SODIUM RYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

OR DENSITY (AIR = 1) ND DATA (LING POINT DECOMPOSES ABOVE 40 DEG C (104 DEG F) FZING POINT 7.5 DEG F (-13.6 DEG C) DBILITY (WATER) COMPLETELY CIFIC GRAVITY ABOUT 1.198 (12.5% W/W SOLUTION) a ZO DEG C (68 DEG F) PORATION RATE NOT AVAILABLE OLATILE BY VOLUME NOT AVAILABLE

TION 10 - STABILITY AND REACTIVITY

EMICAL STABILITY: STABLE AT ROOM TEMPERATURE.

ARDDUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION: CHLORINE, SODIUM DE, DXYGEN, OXIDES OF CHLORINE, SOCIUM CHLORATE, AND HYDROGEN.

(DITIONS TO AVOID: KEEP AWAY FROM HIGH HEAT, AN)) SUNITGHT OR ULTRA-VIOLET THE DO NOT STORE ABOVE 30 DEG C (86 DEG F), DO NOT ALLOW SOLUTIONS TO LPORATE DRY, KEEP AWAY FROM INCUMPATIBLES.

COMPATIBILITY WITH DIMER SUBSTANCES: MAY REACT VIOLENTLY WITH STRONG ACIDS IDUCING CHLORINE GAS, WHICH IS TOXIC. OTHER INCOMPATIBLES INCLUDE ORGANIC ERIAL, CELLULOSC, OXIDIZABLE MATERIALS, AMMONIA, UREA, AMMONIUM SALTS, IYLENETHINE, CYANIDES, NITROGEN COMPOUNDS, ALCOHOLS, METALS, AND METAL DES. REACTS WITH METALS TO PRODUCE FLAHMABLE HYDROGEN CAS, METAL AND AL DXIDE CATALYSTS DECOMPOSE HYPOCHLORITES, EVOLVING OXYGEN AND OFTEN ISING EXPLOSIONS, MAY REACT EXPLOSIVELY WITH NITROGEN CONTAINING COMPOUNDS FORM CHLOROANINES, WHICH ARE EXPLOSIVE. ALKALINE HYPOCHLORITE SOLUTIONS 'REACT EXPLOSIVELY WITH SOME CHLORODRGANIC COMPOUNDS.

RDSIVITY TO METALS: SOLUTIONS CAN BE CORRUSIVE TO MANY METALS.

ARDOUS POLYMERIZATION: WILL NOT OCCUR.

TION 11 - IOXICOLOGICAL INFORMATION

ICOLOGICAL DATA

IUM HYPOCHLORITE:

HIGITY DATA: TOLO (LOWEST PUBLISHED TOXIC DDSE) DRAL-WOMAN- 1 GM/KG

45 MG/KG INTRAVENOUS-MAN TOLO

LD50 DRAL RAT- 8910 MG/KG

LOSD DRAL MOUSE- 5800 MG/KG

LC50 RAT- >10500 MG/M3 (1 HR)

ITATION DATA: EYES: ONE DROP OF 15% SOLUTION (PH 11.2) CAUSED IMMEDIATE ERE PAIN. IF NOT QUICKLY WASHED OFF WITH WATER, IT CAUSED BLEEDING AND ILING OF THE TENDER TISSUE SURROUNDING THE EYE (CONJUNCTIVA) AND DAMAGE 'H SWELLING TO THE FRONT PART OF THE EYE (CORNEA). THE EYES SOMFTIMES LED IN TWO TO THREE WEEKS WITH SLIGHT OR NO SCAR DAMAGE TO THE CORNEA. N: A SOLUTION OF 3.5% NADEL APPLIED TO RABBIT SKIN FOR 15 OR 30 MINUTES SED SEVERE SKIN DAMAGE.

### IUM HYDROXIDE:

JTATION DATA: 500 MG/24 HOUR(S) SKIN-RABBIT SEVERE; 400 PG EYES-RABBIT D; 1 PERCENT EYFS-RABBIT SEVERE;

ICITY DATA: 1350 MG/KG SKIN-RABBIT LOSO: 104-340 MG/KG ORAL-RAT LOSO

ORT NUMBER: 703 UNIVAR USA INC.
S NO: DX622680 MATERIAL SAFETY DATA SHEET PAGE: 008

NFRAME UPLOAD DATE: 07/26/04 VERSION: 018

IDUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

'AGENICITY: SODIUM HYPOCHLORITE CAUSED MUTATIONS IN SEVERAL SHORT-TERM IDIES USING BACTERIA AND CULTURED MAMMALIAN CELLS. THE SIGNIFICANCE OF SE TESTS IS UNCLEAR. IT WAS NOT MUTAGENIC IN TESTS (CHROMOSOME ABERRATION) I MICRONUCLEUS) ON LIVE ANIMALS.

'RODUCTIVE EFFECTS: HIGH DOSES OF NACCL IN DRINKING WATER CAUSED A SMALL SIGNIFICANT INCREASE IN ABNORMAL SPERM IN MICE.

ATOGENICITY AND FETDTOXICITY: NO DATA AVAILABLE

CINOGENICITY: SEE SECTION 3, PAGE 2.

TERGISTIC MATERIALS: NONE KNOWN

### TION 12 - ECOLOGICAL INFORMATION

ITOXICOLOGICAL INFORMATION: HARMFUL TO AQUATIC LIFE IN LOW CONCENTRATIONS. TH TOXICITY: 1050 (48 HR) RAINBOW TROUT 0.07 MG/L.

LC50 (96 HR) FATHEAD MINNOW 5.9 MG/L.

'ERTÉBRATE AND MICROBIAL TOXICITY; LOEC ONCORHYNCHUS KISUTCH 0.02 MG/L. SISTENCE AND DEGRADATION: NO DATA AVAILABLE.

# TION 13- DISPOSAL CONSIDERATIONS

IEW FEDERAL, STATE AND LOCAL GOVERNMENT REQUIREMENTS PRIDE TO DISPOSAL. NOT DISPOSE OF WASTE WITH NORMAL GARBAGE, OR TO SEWER SYSTEMS. TEVER CANNOT BE SAVED FOR RECOVERY OR RECYCLING, INCLUDING CONTAINERS ULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE DISPOSAL FACILLY. ICESSING, USE DR CONTAMINATION OF THIS PRODUCT MAY CHANGE THE WASIL ACEMENT OPTIONS.

A: TEST WASTE MATERIAL FOR CORROSTVITY, DOD2, PRIOR TO DISPOSAL.

### TION 14 TRANSPORT INFORMATION

TDG CLR J DOT

PPING NAME KYPOCHLORITE SOLUTION - WITH HYPOCHLORITE SOLUTION

MORE THAN 7 PERCENT AVAILABLE

CHLORINE

ARD CLASS / DIVISION 8: CORROSIVE 8: CORROSIVE

NTIFICATION ND. UN1791 UN1791 ΙI IIIP/RQ N/AP N/AP

E: \* TOG CLR (CLEAR LANGUAGE REGULATIONS) BECAME EFFECTIVE AUGUST 15.

A/ICAO SHIPPING DESCRIPTION: HYPOCHLORITE SULUTION, CLASS 8, UN1791, PG OR III IS ACCEPTED FOR AIR TRANSPORT.

# TION 15 - REGULATORY INFORMATION

CLASSIFICATION

A CLASSIFICATION: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION NDARD (29 CFR 1910.3200)

A REGULATIONS SECTIONS 313 AND 40 CFR 372: N

ORT NUMBER: 703 UNIVAR USA INC. PAGE: 009

IS NO: DX622680 MATERIAL SAFETY DATA SHEET

INFRAME UPLOAD DATE: 07/26/04 VERSION: 018

DUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

A HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21):

ITE: Y (ONIC: N (E; N (CTIVE: N

IDEN RELEASE: N

IA PROCESS SAFETY (290FR1910,119): N

CLA SECTION 103 (40CFR302,4); V

'ORTABLE QUANTITY (RQ) UNDER CERCLA: 100 LBS. (45.4 KG)

A INVENTORY STATUS: Y

IER REGULATIONS/LEGISLATION WHICH APPLY TO THIS PRODUCT: HT-TO-KNOW/DISCLOSURE LISTS: ILLINOIS, MASSACHUSETTS, NEW JERSEY, INSYLVANIA,

S PRODUCT DOES NOT CONTAIN NOR IS IT MANUFACTURED WITH GZONE DEPLETING.

### ADIAN CLASSIFICATION

S PRODUCT HAS BEEN CLASSIFIFD IN ACCORDANCE WITH THE HAZARD CRITERIA OF CPR (CONTROLLED PRODUCTS REGULATIONS) AND THIS MSDS (MATERIAL SAFETY A SHEET) CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR. TROLLED PRODUCTS REGULATIONS (WHMIS) CLASSIFICATION: HATERIAL CAUSING OTHER TOXIC EFFECTS -TOXIC CORROSIVE

A / CANADIAN DOMESTIC SUBSTANCES LIST (DSL): Y
IS INGREDIENT DISCLOSURE LIST: MEETS CRITERIA FOR DISCLOSURE AT 1% OR ATER.

ECS NUMBER: 231-668-3

TION 16 - OTHER INFORMATION

IONAL FIRE PROTECTION ASSOC) ATTOM (NEPA) RATING ARBOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATING NEPA HMIS

PORT NUMBER: 703 UNIVAR USA INC.
US NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 010

INFRAKE UPLOAD DATE: 07/26/04 VERSION: 018

DUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

ORDER NO: 366793 PROD NO : 170240

FIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

> # - CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER.

CLA - COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY

? - CODE OF FEDERAL REGULATIONS

DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL PROTECTION AGENCY

- IMMEDIATELY DANCEROUS TO LIFE AND HEALTH . Н

io - THE CONCENTRATION OF MATERIAL IN AIR EXPECTED TO KILL 50% OF A GROUP TEST ANIMALS

(0 - LETHAL DOSE EXPECTED TO KILL 50% OF A GROUP OF TEST ANIMALS

IA - MINE SAFETY AND HEALTH ADMINISTRATION

ISH - NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

IA - OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION

PERMISSIBLE EXPOSURE LIMIT

- POLYVINYL CHLORIDE

(A - RESOURCE CONSERVATION AND RECOVERY ACT.

A - SUPERFUND AMENUMENTS AND REAUTHORIZATION ACT OF THE U.S. EPA.

:L - SHORT TERM EXPOSURE LIMIT

; - TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS

' - THRESHOLD LINIT VALUE

A - TOXIC SUBSTANCES CONTROL ACT

ORT NUMBER: 703 UNIVAR USA INC.
IS NO: 0X622680 MATERIAL SAFETY DATA SHEET PAGE: 011

NFRAME UPLOAD DATE: 07/26/04 VERSION: 018

IDUCT: LIQUICHLOR / SODIUM HYPOCHLORITE 9-16%

PROU NO : 170240

ORDER NO: 366793

CONTACT: MSDS COORDINATOR UNIVAR USA INC.

DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400

08/25/04 15:3B PRODUCT: 170240 CUST NO: 545376 ORDER NO: 366793

----- NOTICE ------

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TICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED

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# Section 5.0 EPA Form 2C Appendix B

Application Sampling and Analysis Laboratory Report



# ANALYTICAL REPORT

Laboratory Name: Address

730's Ferwick Lane, 2nd Floor Power Production Chemical

Westminster, CA 92683-5202

Telephone:

Facsinule:

(714) 895-0525 (714) 895-0513

Expires 12/30/05

6%1 Lahoratory Carrifloation (ELAP) No.:

Laboratory Director's Natto:

Shawn S. Simptons

Caboniury Director's Signature:

NRG El Segundo Operations fixa. 301 Vista Del Mar

80

ADDRESS CLENI

El Segundo, CA, 90245

DATE(S) RECEIVED:

\$990 and \$10004

DATE(S) SAMPLED:

08/JUQH

Chan of Custody(ass) Received.

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An EDISΦN INTERNATIONAL Company

# **ANALYTICAL REPORT**

Cover Page 2

	Coron rage 2	
'	NRG P.O. E107095	
Inorganic Analyses	# of Samples	# of Samples Subcontracted
C12 Tot., in field	36	D
pH	36	n
Oil and Grease	36	0
TSS	4	0 1
Nitrite-Nutrate-N	4	•
Celor	4	n [
Sulfate	4	0
Salfide	4	١
Sulfile	4	43
Magnessum	4	0 {
HOD	4	4
COD	4	4
TOC	4	4
Anumonia-N	4	4
Bromide	4	4
Total/Fecal Coliform	36	.36
Phonide	4	4
Nitrogen, Total Organia	4	4
Phosphorus, Total	4	4
Radionativity, Total Alpha	4	4
Radioactivity, Total Beta	4	4
Radioactivity, Total Radium	4	4
Radioactivity, Radium 226	4	4
Surfuctionts	4	4
Trace Metals in Scawater	4	4
Cyanide	36	36
Phenols	36	36
Organic Analyses	# of Samples	4 of Namples Subcontractor
VOCs	20	20
SVOCs	4	4
Dioxin	4	4
Pesticides/PCBs	4	4
Sample Condition:	Acceptable	

· . ·	Ţ	Γ	Γ	<del></del>	·	Total
	PATE TIME	DATE	ļ		RJ.	Chlorate
UNIXS 1 AND 2	Сонавствр	ANALYZED	PARAMICIER	мистнов	(m/g/0.)	(mg/L)
Units 1&2 Intake	8/9/04 15:55	08/09/04	Chlorine Residual	SM 4500-CLG	0.03	ND
Units 1&2 Outfall	8/9/04 16:20	08/09/04	Chlorine Residual	SM 4500-CLG	0.03	No
Units 1&2 Intake	8/9/04 18:15	08/09/04	Chlorine Residual	SM 4500-C1 G	0.03	NID
Units 1&2 Ootfall	8/9/04 18:38	(18/1/9/04	Chlorine Residual	SM 4500-CLG	0.03	ND
Units 1&2 Intake	8/9/04 20-50	08/19/04	Chlorine Residual	SM 4500 CLG	0.03	ND
Units 1&2 Outfall	8/9/04 21:00	08/09/10	Chlorine Residuat	SM 4500-CLG	0.03	ND.
Units 1&2 Intake	8/9/04 23:40	08/09/04	Chlorine Residual	SM 4500-CLG	11.03	ND
Units 18:2 (Judfall	8/10/04 0:00	08740704	Chlorine Residual	SM 4500-CLG	0.01	ND -
Units 1&2 Intake	8/10/04 2:55	08710004	Chlorine Residual	SM 4500-CLG	0.03	ND
Units 1&2 Outfall	8/10/04 3:15	08/10/04	Chlorine Residual	SM 4500-CLG	0.03	מא
Units [ &c2 Intuke	8/10/04 5:55	08/16/04	Chlorine Residual	SM 4500-CLG	0.03	ND
Units 1&2 Outfull	8/1(00/4-6:15	08/10/04	Chlorine Residual	SM 4500-CLG	0.03	_ ND
Units J&2 Intake	8/10/04/9:15	08/10/04	Chlorine Residual	SM 4500-CT G	0.03	ND:
Units 1&2 Oulfall	8/10/64 8:55	OR/10/04	Chlorine Residual	SM 4500-CLG	0.03	ND
Units 1&2 Intake	8/10/04 11:55	09/10/04	Chlorine Residual	SM 4500-CLG	0.03	ND:
Units 1 <u>&amp;2 Outfall</u>	8/10/04 12:15	08/10 <b>/</b> 04	Chlonne Residual	8M 4500-CLG	0.03	ND
Units 1&2 Intake	B/10/04_14:55	08/10/04	Chlorine Rusidual	SM 4500 CLG	0.03	NO
Units 1&2 Outfall	B/10/04 (5:15	08/10/04	Chlorine Residual	SM 4500 CLG	0.03	ND
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<b>分配例300万里1807年最初三</b> 元	2234-323-44-12-71-8	175 et.e-625	e and a contract of the state	T		
	DATE THEFT	A DOMEST			T MIRE	THE RESIDENCE OF THE PERSON OF
ENTIRE REPORT OF THE PARTY OF T	ECOLUEI OF RELEGION	ANALYZET	PARAMETER	NICTHAND TO SENT	160 1600	
Units 1&7 Intuke	8/9/04 15:55	08/09/04	Electrometric pH	EPA 150.1	0,01	7.87 at 21.1°C
Units 1&2 Ontfall	8/9/04 16:20	08/09/04	Electrometric p[[	EPA 150.1	0.01	8.04 at 20.4°C
Units 1&2 Intake	8/9/04 18:15	08/09/04	Electrometric of)	EPA ISO.1	0.01	8.08 at 20.0°C
Units 182 Outfall	8/9/04 18:38	08/09/04	Electrometric pH	EPA 150.T	0.01	B.08 at 19.3°C
Units 1&2 Intake	8/9/04/20:50	118709704	Electrómetric pH	EPA 150 I	Ont	8.12 at 18.6°C
Units f&2 Outfall	8/9/04 21:00	08/09/04	Electrometric pH	BPA 150.1	0.01	8.12 at 18.5°C
Units 1&2 Intake	8/9/04 23:40	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 18.6°C
Units 1&2 Outfall	8/10/04 0:00		Electrometric pH	BUA 150.1	41.01	8.18 at 18.7°C
	8/H <u>I/0</u> 4 <u>2:5</u> 5	08/10/04	Electrometric pH	60A 150.1	0.01	8 I3 at 17.8°C
	8/10/04/3-15	09/10/ <b>14</b>	Electronictric pH	EPA (50.)	0.01	8.47 at 18 I°C
_: :: : :	8/10/04 5:55		filectrometric pf1	EPA 150.1	0.01	8.16 at 18.6°C
Omis 1&2 Outfall	8/10/04 6.15	08/10/04	Electrometric pH	EPA 150.1	9,01	8.18 at 18.8°C
Units 1&2 Intake	B/10/04 9:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 m 17.3°C
	8/1(M)# 8:55	08/EI <u>J/04</u>	Electrometric pH	EPA 150.)	0.01	6.02 at 17,3°C
	<u>#/</u> 10/04 <u>[1:5</u> 5		Electrometric pl)	EPA 150.1	0.01	8.06 at 18.9°C
<del></del>	8 <u>/10/</u> 04 12: <u>15</u>	08/10/04	Electrometrie pH	EPA 150.1	10.0	8.05 at 19.6°C
· · <del></del> ·- ·	8/10/0 <u>/4</u> 14:55		Electrometric pH	EPA 150.1	UOL	7.99 at 19.0°C
Units 1&2 Outlid!	8/ <u>HJ/04_1</u> 5:15	00/10/04	Electrometric pH	EDS [50 L	0.01	8 09 at 17.9°C
<u> </u>						

	<u> </u>		·			Total
	DATETIME	Ватк			RJ.	Chlorine
UNITS 3 AND 4	COLLECTED	ANALYZED	PARAMKIYE	METHOD	(mg/L)	(r/g/L) .
Units 3&4 Intake	8/9/04 15:20	08/09/04	Chlorine Residual	SM 4500-C1 G	0.03	ND
Units 3&4 Outfall	8/9/04 14:45	IJ88)98)4	Chlorine Residual	SM 45RMC1 G	0.03	ND T
Units 3&4 lotake	8/9/04 17:55	08/09/04	Chlorine Residual	SM 4500-CLG	0.03	ND
Units 3&4 Outfall	8/9//M 17:30	08/09/04	Chlorine Residuat	SM 4500-C1 G	0.03	N()
Units 3&4 Intake	8/9/04 20:20	08/09/04	Chlorine Residual	SM 4500-CT G	0.03	ND_
Units 32/4 Ontfall	8/9/04 20:35	118709704	Chlorine Residual	SM 4500 CLG	0.03	ND
Units 3&4 lotako	8/9//M 23:15	08 <i>09X</i> )4	Oblorine Residual	SM 4500-C1 G	0.03	ND
Units 3&4 Outfall	8/9/04 23:25	08/09/04	Chloring Residual	SM 4500-C1 G	0.03	ND.
Units 3&4 Intake	8/10/M 2:15	08/10/04	Chlorine Residual	SM 4500FC1 G	0.03	ND
Units 3&4 Outfall	8/10/04 2:35	08/14,004	Chlorine Residual	SM 4500 CLG	0.03	ND
Units 3&4 Intake	8/10/04 5:15	08/10/04	Chlorine Residual	SM 4500+C) G	0.03	ND
Units 3&4 Outfall	8/40/04 5:35	08/1f0XM	Chloring Residual	SM 4500-CLG	0.03	ND
Units 3864 Intake	8/10/04/8:15	08/10/04	Chloring Residual	SM 4500-C1 G	0.03	ND
Units 3&4 Oorfull	8/10/04 8:35	08/10X)4	Chlorine Residual	SM 4300-CLG	0.03	ND.
Units 3&4 Intake	8/10/04 11:15	08/10/04	Chlorine Residual	SM 4500-C1 G	0.03	ND
Units 3&4 OntFall	8/10/04 11:35	08/10/0//	Chlorine Residual	SM 4500-C1 G	0.03	N)D
Units 3&4 Intake	8/10/04 14:15	08/10/04	Chlorine Residual	SM 4500-C1 G	0.03	ND
Units 3&4 Oolfall	8/10/04 14:35	08/10/04	Chlorine Residual	SM 4500-CLG	0.03	NÍD
				1	. —	

	T**	07774				
	CO CHECK	1.004			. Andrew	の言語を開発して
	COLUMN S	AL LEGISTRA	PARAMETER	MKUHUM	in <b>per</b> lamini	Spring Color
Units 3&4 Intake	K/9/04 15:20	08/09/04	Electronicine pH	EPA 150.1	0.01	8.14 at 22 0°C
Units 3&4 Outfall	8/9/tM_14:45	08/09/04	Electronistric pl f	EPA 150.1	0.01	8.11 at 24.1°C
Units 3&4 Intake	<u>8/9/04</u> 17:55	08/09/04	Electrometric pH	EPA 150.1	0.01	8.10 at 21.2°C
Units 3&4 Omfall	8/9/04 17:30	08/09/04	Electrometric pH	EPA 150.1	0.01	8.14 at 22.3°C
Units 3&4 Intake	8/9/14/20:20	08/09/04	Electrometric pH	EPA 150.1	0.01	8.18 at 19.2°C
Units 3&4 Outfall	8/9/04 20:35	08/09/04	Electrometric pl)	EPA 150.1	0.01	8.13 at 19.4°C
Units 38/4 Intake	B/9/04/23:15	f18709704	Electrometric pH	EPA 150.1	0.01	8.18 at 19.1°C
Units 3&4 Outfall	8/9/04 23:25	08/09/04	lilectrometric pH	EPA 150.1	0.111	8.20 at 19.2°C
Units 3&4 Intake	8/10/04 2:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 at 18.6°C
Units 3&4 Outlall	8/10/04 2;35	08/10/04	Electronterric pH	EPA 150.1	0.01	8.14 at 18.6°C
Units 35/4 Intake	#/10/04 5:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.18 of 18 8°C
Units 3&4 Outfall	8/1 <u>0/04 5</u> :95	08/10/04	Electrometric pH	EPA 150.1	0.01	8.20 at 19.3°C
Units 3&4 Intake	8/10/04 <u>8:15</u>	08/10/04	Electrometric pH	EPA 150.1	0.01	8.02 at 19.9°C
Units 3&4 Outfall	8/10/04 8:35	08/10/04	Electronictric pH	EPA 150.1	0.01	8.02 at 20.0°C
Units 38:4 Intake	8/10/04 11:15	08/10/04	Electrometric pH	EPA 150.1	0.01	8.09 at 19.5°C
Units 3824 Outfall	8/10/04 11:35	08/10/04	Electronictric pH	EPA 150.1	0.01	8.10 at 19.0°C
Units 3&4 Intake	N/10/04 14:15	08/10AM	Electrometric pH	EPA 150.1	0.111	8.10 at 19.7°C
Units 3&4 Outfall	B/10 <u>/04 14:35</u>	08/10/04	Electrometric p14	EPA 150.1	0.01	8,13 at 19,5°C
l	l					

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Matter Control of the Control	. 20 <u>28</u>	1001 (100	Department of the	<u> Neffaul (1223</u>		
. Units 1&2 Intake	8/9/04 15:55	09/02/04	Oil and Grease	1928-1664A LLE	1.4	ND :
Units 1&2 Ootfall	B/9/04 16:20	09/02/04	Oil and Grease	BPA 1664A LUE	1.4	2.4
Units 1&2 Intake	879704 18:15	08/31/04	Oil and Grease	EPA 1664A LLE	E.4	ND
Units 1&2 Outfall	8/9//14 (8:38	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/9/04 20:50	06/31/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/9/04 21:00	08/11/04	Oil and Grease	BPA 1664A LLE	1.4	NTD 1
Units 1&2 Intake	8/9/04/23:40	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10/04 0:00	09/01/04	Oil and Greage	EPA 1664A LLE	1.4	ND
Units 1&2 Intake	8/10/04/2:55	09/01/04	Oil and Grease	EPA 1664A LLE	E.4	ND
Units 1&2 Quitall	M/10/04 3:15	09/02/04	Oil and Grease	EPA 1664A LLE	E.4	ND
Units 1&2 Intake	K/10/04 5:55	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1&2 Outfall	8/10A)4 6:15	09/03/04	Oil and Greage	EPA 1664A LLE	1.4	OIN.
Units 1&2 Intake	9/10/04 9: (5	09/03/04	Oil and Grease	JTA 1664A LLE	1.4	NID .
Units 1&2 Outfall	8/10/04 8:55	09/02/04	Oil and Grease	SPA 3664A LLE	1.4	ND.
Units 1&2 Intake	W10/04 LL:55	09/03/04	Oil and Grease	BPA 1664A LLE	1.4	ND 1
Units 1&2 Outfall	8/10/04 12:15	09/03/04	Oil and Grease	EPA 1664A LLE	£.4	ND
Units 1&2 Intake	8/10/04 14:55	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND .
Units 1&2 Outfall	8/10/04 15:15	08/31/04	Oil and Grease	RPA 1664A LLE	1.4	ND 1
	1 —					'
Units 3&4 Intake	8/9/04 15:20	08/27/04	Oil and Grease	EPA 1664A LLE	[.4	ND
Units 3&4 Outfall	8/9/04 14:45	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND "
Units 3&4 Intake	8/9/04 17:55	08/27/04	Oil and Grease	FPA (664A LLE	1.4	ND :
Units 3&4 Outfall	8/9A)4 17:30	08/20/04	Oil and Grease	EPA 1664A LU)(	1.4	ND ·
Units 3&4 Imako	8/9/04/20:20	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfall	8/9/04 20:35	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/9/04 23:15	08/27/04	Oil and Grease	EPA 1664A LLC	1.4	ND
Units 3&4 Outfall	8/9/04/23:25	08/20/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 2:15	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	NID
Umis 3&4 Outfall	8/10/04 2:35	08/20/04	Oil and Grease	FPA 1664A LLE	1.4	ND .
Units 3&4 Intake	8/10/04 5:15	08/27/04	Oil and Grease	EPA 1664A I.).E.	1.4	ND I
Units 3&4 Outfall	8/10/04 5:35	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND :
Units 3&4 Intuke	8/10/04/8:15	08/27/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Outfull	8/10/04 8:35	09/153/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Intake	8/10/04 11:15	09/03/04	Oil and Grease	EPA 1664A LLE	1,4	ND
Units 3&4 Outfall	8/10M)4 L1:35	09/07/04	Oil and Crease	EPA 1664A LLB	1.4	ND .
Upits 3&4 Intoke	8/10/04 14:15	(99/03/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Onits 3&4 Outfall	8/10/04 14:35	09/07/04	Oil and Grease	EPA (664A LLE	1.4	שא
				THE COURT DEED	1.4	
Method Blank		08/20/04	Oil and Grouse	EPA 166/1A LLE	1.4	NĎ T
Method Blank	$\vdash$	08/27/04	Oil and Grease	EPA 1664A IJB	1.4	ND
Method Blank	I — ⊣	08/31/04	Oil and Greate	EPA 1664A LLE	1.4	ND
Method Blank	!—-	119/111/04	Oil and Grease	EPA 1664A LUE	1.4	ND ND
Method Blank	† l	09/02/04	Ohl and Greuse	EPA 1664A LLE	1.4	ND -
Method Blank	·	09/03/04	Orl and Grease	EPA 1664A LUS	1.4	ND
Method Blank	† —·	09/07/04	Oil and Grosse	EPA 1664A LLE		
		_ 05.0 <u>7574</u>	-	ETA 100 A LALE	1.4	- ND
<b>—</b>	'	'	<b></b>		ι. Ι	<b>_1</b>

1000				Prend		
Units 1&2 Letako	8/9 to 9/10014	i	Total Susp. Solids	SM 2540 D	2.0	11.4
Units 1&2 Outfall	8/9 to 3/10/04		Tritul Susp. Solids	SM 2540 O	2.0	9.0

Power Production Chemical Test Resums

(ALINES)	Laule	C.C.INDIA	• • •
_			

,	Units 3&4 Lonke	879 to 8/10/04		Total Susp. Selids _	SM 2540 D	2.0	L ND [	
1		8/9 to 8/10/04	_ :	Total Susp. Solids	SM 2540 D	2.0	i — i	
-	Method Blank	R/9 to 8/10/04		Total Susp. Solids	SM 2540 D	<del> </del> 1.0	! —  -¦	
- 1						_	⊥ .— '	ı

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$(g_i,g_i,G_i)_{i=1}$ .	www.062-41255	1.00 m (40)	Lagar (Production	otg 6-310;	<u> </u>	1995-27.5 L
Units 1&2 Intake C.	8/9 to 8/10/04	06/11/04	Color	SM 2120 B	5	МĎ
Units 1&2 Outfall C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B		ND
Units 3&4 Intake C	8/9 in 6/10/04	08/11/04	Color	SM 2120 B	5 _	ND
Units 38/4 Chr(all C.	8/9 to 8/10/04	08/11/04	Color	SM 2120 B	5	ND
	[ ]	]	L	[	<u> </u>	<u>.                                    </u>

		10.00	:	:.	Sec. 300
gray to graduate to	92 1 25	<ul> <li>See Australia</li> </ul>	A 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	Walle of A
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04 Nitrite	Number N EPA 3	0.00.	1 NO
Units 1 &2 Outfall C.	8/9 to 8/10/04	08/11/04 Nitrate	Nitrato-N EPA 3	100-0	I NĐ ]
Units 3&4 Intake C	8/9 to IQ10/04	08/11/04 Minite	:-Nitrate-N EPA 3	800 0	1 ND
Units 3&4 Chitfall C.	8/9 to 8/10/04	08/11/04 Nicrite	-Nitrate-N EPA 3	0.00	I ND
Method Blank	· '	08/11/04 Nitrite	Nitrate N BPA 3	000.0	I ND
	L				

	Jan 2000	. 274		March 1	: 	
Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2550
Units 1&2 Outfall C.	8/9 to 8/10/04	08/14/04	Sulfate	EPA 300 0	200	2560
Units 3&4 Intake C.	8/9 to 8/10/04	08/11/04	Sulfate	EPA 300.0	200	2580
Units (884 Chufall C.	8/9 to 8/10/04	08/11/04	Sulfate	FJ <sup>a</sup> A 300.0	200	2590
Method Blank	,	08/11/04	Sulfate	EPA 300.0	2	ND
		· · ··	<del></del>			l

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Units 1&2 Intake C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-5 <sup>2</sup> D	0.02	ND.
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Oil and Grease OPR	09/01/04		40.0	34.8	87%	78414%
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Oil and Grease	07/20/04		EB-040712-RB-0XG-1	40.0	42.5	106%	78-114%
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Bring (4) Funanthere	14	₹			:			:		₹	!!		i		:		<b>,</b>	<u>.</u> :	;
8s (2 Chamellooy) #elhana	T/did	9.5		-	: <sup>'</sup>   .		ļ. j	;	' 	ଶ୍ <u>ୟ</u>	4			 	;		<u>.'!</u>	-	.[
Bis/2-Chbroethyl, ellier	Tuga.	3.6	  -  -				. ! ! : !	:		₹	-:		١	  -  -	اً:	;	-	 :1	;
Tas 2-Chlandroprepyly ether	7,01	4.5				:		;	· -	9	$\downarrow$	:	:	: j	:	!	-'! -:	-	Т
8's,2-Et-phenyll proteine	1,64	3.0	;	4		-: :	-	ا:	: -	ર 	`	ا	:	:	 i	:			Т
4-Bringstend mery elber	ائوا	0.0	:	; 		:	 ;	:	! :	ا ا	<del>;</del>	:	اٰ:	;	;			İ	;
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2-Chickor aphibalene	F.	e e	İ	_!	:	; . 	:	:	1		:   :	:	ij	:	:	:		İ	
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Dibenzo(a.b.) ambracente	Į,	99	¦		اٰ:	:		أ.	۱'	4	١.	:	:	:	İ	!	-		
i,2 Dronforctonzeno	퇿	99	:	' !	:	:	:		: I :	9	· :	•	:	:	:	·. : ,	-	: İ	
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# ANALYTICAL REPORT

#### A04121

Lot #: B4ff110333

Sharen Simmone

Southern California Edison Com-

SEVERN TRANT LABORATORIES, INC.

Marisol Tabirara Project Manager

September 13, 2004

# EXECUTIVE SUMMARY - Detection Highlights

### B4H110333

		REPORTING		ANALYTICAL
PARAMETER	RESULT	LIMIT	CNITS	METHOD
AND DESIGNATION OF THE PARTY OF				

# METHODS SUMMARY

### E4H1 L0333

 PAGAMETER
 ANALYTICAL METHOD
 PREFARATION

 Validtile Organics by GC/Ms
 SM846 32508
 SW846 50309/826

## References:

SW846

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its opdates.

## SAMPLE SUMMARY

#### R4H110333

		COLENT SAMPL	3 ī <u>r.</u>	 	 	CB.ITKAZ ETAC	SAMP TIME
MAX 6R	001	TER INTYKE				AN LOD LOA	
GMXEG	002	192 OUTSALL				OB/09/04	
GMX66H	003	364 INTAKE				08/09/04	
CRXAC	964	360 CHIPFALL				05/09/04	
CMXGN	305	162 ENTAKE				09/09/04	
GMX51.	006	193 OUTFALL				08/09/04	
GMXSX	007	284 INTAKE				08/09/04	
GNXGN	008	344 OUTWARD				08/05/04	
SMX69	509	142 INTAKE				DH/G3/24	
CHINEO	010	162 CUTFALL				00/10/04	
GMX S 🕏	021	384 INTARR				08/10/04	
GMXGT	D12	344 OUTSWILL				06/10/04	
GMX6V	913	162 INTARE				06/10/04	32:35
SMX.6W	0.14	140 CUTFALL				09/10/04	09:15
GMXCX	015	384 INTABE				08/10/04	0F:5a
GMX56	016	3&4 острадь				38/10/04	
GMX61	917	142 INTAKE				06/70/04	Da - 35
CMXG2	016	142 OUTSACE				06/10/04	14:55
Эмхья	019	364 INTAKE				00/10/54	
GMX 5.4		354 OUTFALL				28/10/04	
		WOLFALL				GB/10/04	
NOTE (5)	) :						

The analytical results of the samples have above and personted on the indigeting payer.

<sup>-</sup> All referrations are performed believe rounding to except round-oil errors of calculating results.

Results total as "ND" with and detected at or above the stated lying.

This report west that be reproduced, except to full, without the written approve of the Shortlery.

<sup>-</sup> Results for the listicaling percentages are never reported or a tay weight pasis; votor portes wiley, density, flashgourd, agreeability, hypers offer. point file: leak, pill, perceitly program reactivity, redox potential, specific gravity, aporticals, volids, solids high temperature, visitority, and wright

## Client Sample 10: 152 THTAKE

#### GC/MS Volatilna

but-Sample #...: Bisin0353-001 Work Order #...: GMMastaA Matrix.,,,,,,,, Date Sampled...: 08/09/04 15:55 Date Received..: 08/11/04 14:50 MS Run #...... 4225302

Prop Date..... 08/11/09 Analysis Dahella 08/11/04 Prep Batch #...: 4225496 Analysis Time..: 23:20

Dilution Factor: 1

Analyst: TD....: 015550

Instrument ID.:: MSQ

Melbod.....s SW646 ageog

		PERGROINS	1		
<u>PARAMBTE</u> R	RESULT:	LIMIT	UNITS	MCG	
Chloromethano	CIS	2.0	ug/%	0.00	
Chlorophane	ND	2.0	11g/%	0.30	
Arromomethane	MD	2.0	wg/L	1.0	
1,1-Dichlordethene	ND	1.1:	1g/L	0.30	
Methylene chlocide	MIC	1.5	ug/L	0.30	
trans-1,2-Dichloroothede	ND	1.6	ug/L	0.30	
1.1 Dichlorosthame	ND	1.0	ug/L	0.30	
Chloroform	רא	1.0	ug/L	0.20	
1,1,1-∀richloresthame	NO.	1.0	ug/:/	2.20	
Carbon tetrachlorade	NO	1.0	09/1	3.30	
Benzene	MD	1.0	Dg/1	0 30	
Tricblordethend	ND	1.0	2g/6	0.30	
1.7 Dichloropropame	ND	1.0	uq/L	0.30	
Broamdichlorovethane	NE	1.5	ug/6	0.30	
cts:1.3-Dichloropropend	ип	1.8	ug/L	0.35	
Toloene	NTD	1.G	աց/և	0.30	
1,1,2-Trichloroethens	פא	1.0	ug/1.	0.30	
1.2-DimblorGethame	NO	1.0	ug/5	0.40	
Tetrachloroethend	MO	1.0	u4/L	0.30	
Dibrocochloromothage	900	1.D	Em/E	0.40	
Chlorobendane	NU	1.0	ng/f.	0.30	
Sthylbensess	MD.	1.0	og/L	0.20	
trans-1,3-dichloropropens	ND	1.::	ug/1.	0.50	
Xylenos (total)	NII	1.0	03/L	5.85	
Vinyl chloside	NTD	1.0	u4/2	9.35	
Bronologia	ND	1.0	ug/2	9.30	
1,1,2,2 Univachiozoethame	ND	1.0	9g/5	G.4G	
Mcralnin	MD	20	ug/L	12	
Actylomicaile	MD	20	207/L	10	
<pre>2 Chiorsethyl vinyl other</pre>	NC .	5.0	ಆಕ್ರ/೬	2.3	
Dichlorod: Nuctomethans	NB	2.0	ug/L	0.40	
Trichlorofluoromethane	ĸЭ	2.0	usi/L	0.30	
			0.51.2	0.20	
	PERCENT	RETOVERY			
SURROGATE	RECOVERY	LIMITS			
Eromofloosobenzene	102	(75 - 130)	5		
1,2-Dichlorachhane-44	105	(65 - 135)			
Toluena-da	10%	160 - 140:			

### 162 INTARE

# CC/MS Volatiles

Act Sample #: E4H110433-001	Work Order #: :>XX681AX	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM	(MSDS) TERTATIVELY LUBRATIFIED	COMPOUNDS
BIS (Chlorovethyl) Ethor	<u>CAS # BSSULT</u> 542-88 1 NO M	RETENTION TIME UNITS
NOTE (S) :  VI. Rewill was measured equival nearest Internal standard source	ng a response factor (F1)	

# Chiest Sample ID: 142 OFFFALL

### GC/MS Volatiles

Date Sampled Prep Date Prep Eatch W Bilution Pactor:	08/09/04 16:20 08/11/04 422549G	Work Order 8: CMX6G1AA Matrix: W. Datc Received: 08/11/04 14:50 MS Run #: 4: Analysis Date: 08/11/04 Analysis Time: 23:41	ATER 325302
Analyst in;	_	TRELINGENT TO MSQ	

Instrument Th.,: MSQ Method..... 88846 6260A

		RRPORTIN:	g-	
<u> </u>	RESULT	LINIT	פליזעט	MDL
Childroret hase	CK	2.0	9975	3.33
Chloroethamn	ND	2.0	ug/1	C. 3a
Bromottechang	ME	2.0	2g/6	1.0
1,1-Dichloroethana	bT:	1.5	ug/L	0.30
Mothyleue mblorade	NB	1.6	ug/1.	0.36
Crans-1,2 Dicklaronthese	פע	1.0	ug/1.	D.35
1,1 Dichlorosthage	כא	1.0	ug/5	5.24
Fhloreform	NO	1.0	ug/1	2.30
<pre>1, 1, 1-TrichLorpethane</pre>	NO	1.0	1:g/L	0.20
Carbon tetrachloride	WD.	1.0	::e/L	0.30
geneche	ND	1.0	11/L	0.30
Tricklorosthame	ип	1.4	ug/L	0.35
1.2-Dichloropropana	ND	1.0	ug/1.	0.35
Brownst Chloremethane	NO	1.0	09/2	0.00
mis 1,2-Dichloropropens	MO	1.0	ug/L	0.20
Toluene	NC	1.0	rg/L	0.30
1,1,2 Trichlorosthage	NC:	1.3	ազ/ <b>L</b>	0.30
1.2-Dichlorocthame	NB .	2.3	ug/L	0.40
Telrachloroschene	ИD	1.0	0g/2 0g/2	0.40
Dibromochlosamethane	99	1.0	ug/L	5 40
Calorobenzena	ND	1.0	ug/:.	DE.2
Bibylbenzene	MD	1.0	wg/L	G. 20
Lrans-1.3-Dichloropropend	RC.	1 0	ug/L	0.50
Kylch÷s (ictal)	NE	1.5	ug/li	0.50 UR.U
Vinyl chlomide	בא	2.4	ug/T4	0.4D 0.7D
Biomofoym	иo	1.0	04/2	0.20
1,1,2,2-Tetrach)oroethanc	NO	1.0	ug/:	2.40
Actolein	ND	20	ug/6	13
Acrylonitrile	ND	20	ug/L	10
2 Chloroethyl vinyl ether	NI:	5.0	ug/f.	2.0
Dichloradi: Quorumethane	ND	2.3	09/L	
Trishlorofluoromethane	כא	7.0	ug/1.	0.40
			ug/2i	0.20
	PERCESS	RECOVERY		
SURROGA, B	RECOVERY	:TMITS		
Bromoficorobenzeno	103	175 - 195	ī	
1,2-SichlosceLhame-d4	2.03	165 135		
To)mene-dB	153	(80 130)		

(80 130)

#### 162 OKITEALL

### DX:/MS Volatiles

Lot-Sample #: EdMi10033 00%	Work Order #: GMX631AA	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM	(MSDS) TENTATIVELY IDENTIFIES	1 COMPOUNDS
PARAMETER Bis (Chlocomothyl) Ether	CAS # ESTIMATED	AZIBNTION Gg/L
NOTE(S):		<u> </u>

DARJES 1 (5) 7 7 M: Westell was recovered against reserved internal standard assuming a sestions of 1.

## Client Sample ID: 354 DYTAKE

#### GC/MS Volatiles

Prep Bate...,: 08/11/04 Analysis Bate..: 08/12/04 Prep Batch W...: 4275496 Analysis Time..: 00:02

Dilution MacLors (

Tolmene-d0

Analyst 1D....: 019990 Instrument III.: MSC

Жеврод..... 50046 6260ы

		REPORTIN	G	
PARAMETER	RESULT	T.TMTT	UNITS	MCL
Chloromethane	ND	2.0	ng/i.	0.30
Chloroethane	ЯD	2.0	ug/6	0.30
Bronopethace	ND	2.0	uny/L	2.0
1,1 Dichlaroethene	ZID	1.0	ಅಕ್ರ/ದಿ	0.30
Methylene chlorida	MD	1.0	og/L	0.30
Lrans-1,2-Dichlorosthene	ND	1.5	$\omega_S/L$	0.30
1,1 Dichlorocthane	ND	1 (	ug/L	0.20
Chlorotorm	ND	1.0	աց/ը	0.30
1,1,1-Trichloroethane	ND	1.0	ug/L	0.26
Carbon terrachloride	ND	1 5	$u_0/L$	0.30
Benzenc	NO.	1. C	ug/b	0.30
Trichloraethana	ND	1.5	ug/L	0.30
1,2-Dichloropropane	BILL	1.0	ug/L	0.30
Bromodicklocometh <b>anc</b>	าย	1.0	ug/L	0.36
cis-1,3-Dichlarapropens	NE	1.6	ug/L	0.30
Politono	NC	1.0	ug/h	0.30
1.1,2 Trichloroethane	NT:	1.6	ng/h	0.30
1,2-Dichlorosthand	ND	1.0	$_{04}/L$	0.40
Tetrachloroothene	NB	00	eg/L	0.30
Dibromochloromet Laue	ис	1.0	ug/1.	0.40
Chlorobenzene	ND	1.0	09/1	0.30
Ethylbenzono	ND	1.0	ug/L	0.25
trans-1,3-Bichloropropene	สห	i.0	ug/L	0.50
Xylenes (total)	כא	1.0	uq/L	0.60
Vinyl chloride	CM	1.0	ug/L	5.30
Hancoform	NO	1.0	ng/S	5.30
1,1.2,2-Telrachlorouthane	NO	1.0	09/5	0.40
Acrolein	NO.	20	ug/1	12
Acrylenitrile	ND	20	rg/:	10
2 Chloroethyl vinyl ether	CN	2: . 0	ug/1	2.0
Dichlosodifluoromathane	MD	2.0	ug/1.	3.60
Trichlorofluoromothace	ND	2.0	ng/L	0.30
	PERCENT	RECOVERY		
SURROGATS	RBCOVERY	<u>STEMPE</u>	_	
Brownefluorebenegne	102	175 - 133	o:	
1,2-Dichloroethabe-d4	98	(63 - 19)	51	
Taluaca - 49	107			

(80 - 190)

## 384 INTARR

# GC/MS Volatiles

Lot-Sample #: R4H110233 303	Nork Order #: GXX6H1AA	Matrix: NATER
MASS SPECTROMRTER/DATA SYSTEM	IMSDS) TENTATIVELY SCENTIFIES	) COMPOUNDS
B <u>AXAMETER</u> Bis (Chloromothyl) Etnez		RETENTION  TIME UNDTE
NOTE (S) :  M; Reselt was incomed against during the dark standard	Ting a expose lactor of 1.	<u> </u>

### Client Sample ID: 364 OUTFALL

#### GC/MS Volatiles

Tor-Sample #	E49110333-004	Work Order #	GMX6J1AA	Matrix:	NATER
Date Sampled:	GB/G9/01 14:45	Nate Received:	00/11/04 14:50	MS Rum ∯::	4235302

Prep Date....: 08/11/04 Analysis Date..: 08/12/14
Prep Batch #...: 4225936 Analysis Time..: 00:23

Dilution Factor: 1

Anulyst EU..... 015590 Instrument ID..: MSQ

Method...... : SW846 8260B

	WEE1100	,- 0"037 64	005	
		RRPORTON	G	
PARAMRTER	HESOLT	<u> </u>	UNITS	9202
Chil oxione Chang	NE.	2.9	얼달/i.	0.30
Chlorcethane	ND	2.5	ug/T.	0.30
Bromorethano	NC	2.5	4分/五	2.0
1.1-Dichlorocchene	NB	1.3	4 <u>5</u> /1	0.30
Methylene chlocido	ND	1.0	og/L	0.30
trans-1,2-Dichloroethene	Nu	1.5	աց/հ	0.30
1,1-Dichloroethane	NE.	1.0	ug/h	0.20
Chloraform	NC	1.0	ng/t	0.36
1,1,1 Trich) oxoethane	N.C.	1.5	un/L	0.20
Carbon tetrachloride	NP.	1.0	ug/L	0.30
Betrzeno	MD	1.3	ug/1.	0.30
Trichloroethene	MD	1.3	ua/Ti	0.36
1,2 Dichloropropage	NE	1.3	ug/L	D.3D
Phomodichichorethane	MB	1.3	ug/1.	0.30
cis-1,3-Dichleropropency	ND	3.0	ug/L	0.30
Teluene	КĐ	1.0	ug/L	0.20
7.1.2 Trichloroethane	си	1.0	ug/1.	0.35
1.2-Dichloroethand	כא	1.0	Ug/1	0.40
Tebrachloroothono	NO	1.9	uq/2i	0.80
Dibromoch Loromethage	NO	1.0	ug/2	5.40
Chlosoboncene	No .	1.0	0g/D	0.20
Ethylbenzene	CK	1.0	ug/L	0.25
trans 1.3-Dichloropropene	NO	1.0	ug/:	5 53
Xylenes (total)	NO	1.0	194/5	0.60
Vinyl chlorade	NO	1.0	ug/L	0.30
Bronofern.	CK	1.0	ng/L	2.33
1 1.2,3-Teirachloroethans	פע	1.0	ug/5	2.40
Acrolein	MD	20	ug/L	12
Adrylamitrile	XD	20	ug/:	10
2-Chloroethyl vinyl ethor	ND	5. D	ug/5	2.0
Dichlorodiflenromathage	ND	2.0	ag/E	0.40
Trichloroflopcomethage	ND	2.0	ug/t/	C 30
	PERCENT	RECOVERY		
<u>SURȘ</u> CGATE	RECDVERY	- GIMETS	_	
Bromofluorobensene	101	175 - 13	2:	
1,7 Dichloroethaue-d4	107	(65 13	51	
Tolugge_32	100			

	PERCENT	RECOVERY
SURSCHATE	ERCDARKA	<u> </u>
Bromofluorobenzene	101	175 - 1300
1.2 Dichloroethane-d4	107	(65 135)
Toluene-da	103	(60 030)

#### 344 OUTFALL,

# cx:/xs Volatiles

Bot-Sample #: Equatoras 33-004	Nork Order #: GMXSJLAA	Matrix: WRTER
MASS SPECTROMETER/DATA SYSTEM	(NSDS) TENTATIVELY IDENTIFIED :	COMPOUNTS
PARAMETER Dis (Chloromethyl) Sches	// to the contract of	RETENTION TIME <u>UNIT</u> S
NOTE (S):  M. Robult was recouled tips not represe into rail conduct assure	ing a majorise factor of 1	

## Client Sample ID: 142 INTAKE

#### GC/MS Volatiles

Not-Sample #...: B4H(10333-095 | Mork Order #...: GMX6X1AA Matrix..... SATER Date Sampled...: GR/G9/04 20:50 Date Recgived..: CR/11/04 14:50 MS Run #...... 4225307

Prop Date.....: 08/11/04 Analysis Dale..: 08/12/04 Prnp Bauch #...: 4225q96 Analysis Time..; 60:44

Difution Factor: i

Analyst TD.,,... 015590 Instrument ID. : MSQ

Method...... \$8846 82630

		REPORTING	:		
PARAXETER	RESULT	LUMIT	UNITS	KOT	
Chloromethano	NI:	2.0	19/5	0.30	
Chicioethane	NT:	2.0	ug/T	D.3D	
Stomomothane	NO	2.0	ug/L	1.0	
1,1-Dichloropthone	ЯD	1.0	ug/1	3.30	
Methylete obloride	MD	1.0	11g/C	3.30	
Urabs-1,2-Dichloranthene	ND	1.5	ng/L	0.30	
1,1 Dichloroethane	8012	1.2	ug/1.	0.20	
Chloroform	р	1.0	ug/6		
).1,1-Crichlomoethane	ND	7.0	0g/b	0.30	
Carbon tetracklontde	NO	1.0	0975 0975	0.20	
Вопреме	MO	1.0	11g/L		
Trichloraethene	ND	1.0	_	6.36	
1,2-Dichloropropage	NG.	1 0	ng/L	0.30	
Bromodichlamomethane	KD.	1.::	աց/հ ա= ()	0.30	
Cia-i,3-D(chloropropene	ND	1.0	ug/1.	0.30	
Coluene	249	1.0	0g/ <u>1</u>	0.30	
4,1,2-Tricklorosthane	ND	1.0	ug/1	0.30	
1,2-Dichioroethans	MD	1.0	ng/ti	G.36	
Tetrachloroethers	80	1.0	uq/L	9.40	
Dintomochlecomorhane	NG	1.0	last/L	0.30	
Chlorobenzanzo	180	1.3	eg/1.	U.4D	
Blhylbonnege	No		ng/L	D.35	
trans 1/3-Dichloropropens	NO NO	1,0	usj/2	0.20	
Xy)enes (total)	ND	1.0	ug/:	2150	
Vanyi chlorice	ND	1.D	ಇ≧∖೯	0.90	
Bromaform	NIC	1.0	ug/L	0.30	
1.1,2 2-Tebracklordethane	NT:	1.0	աց/և	0.30	
Acrolein		2.3	ոՖ/Շ	D.40	
Acrylanitable	NO	20	09/5	12	
2 Malorosthyl vinyl ethor	כע	20	ag/L	10	
Dickloreditiuoromethane	XD.	5.D	75\P	2.5	
Trichloroffluctomethane	ND	2.0	ug/L	0.40	
111cm21xxxxx12c1onet name	NT:	2.0	ug/1.	0.35	
75177.6.0 h	PERCENT	RECOVERY			
BURROGADE	RECOVERY	<u> NAMIDS</u>			
Brommifluoropenzeno	104	C75 - 190)	•		
1,2-Richloroethage-d4	105	165 - 1351			
Th)uene-da	104	(80 - 130)			

#### 142 INTAKE

### GC/MS Volatiles

test Sample #: F48110333 DOS | Work Order #: CMX6K:AA | Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MODS) TENTATIVELY LORNITHIED COMPOURDS

NOTE (5):

M. Roseli was recasived against enaiest, monral scandard assuming a vegeonse factor of 1.

## Client Sample TD: 142 OUTFALL

### CC/MS Volatiles

Lot-Sample #...: E4H110333 506 Work Order W...: CMX65.1AA Matrix........... WATER Date Sampled...: 08/05/04 21:00 Date Received...: 08/11/04 14:50 MS Run #......: 4225302

Prep Date....: 08/11/04 Analysis Date..: 08/11/04 Prep Batch #...: 4225496 Analysis Time..: 22:59

Dilution Factor: 1

Analyst ID....: 015590 Instrument ID..: MRQ

Mathed..... SW846 92603

		REPORTIN	g	
PARAMETER	RRSULT	DIMIT	DMITS	MOC
Chloromethane	ND ND	2.3	0g/L	0.30
Chioxocchane	XU	2.3	ug/L	0.20
Bromowethane	50	2.0	ug/1.	1.0
1,1-Dichloroethene	ND	1.3	0g/T	0.30
Mothylene chloride	ND	1.3	այ/ը	U.3D
grans-1,2-Dichlorosthens	NB	1.0	ug/L	D.3D
1,1-Dichlorocthane	ND	1.3	0g/h	0.20
Chloroform	NU	1.3	04/L	0.36
1,1,1-Trichloroethane	ND	1.5	ug/L	0.20
Carbon Letrachleride	ND	1.3	ug/1.	D.3D
Benzene	NC	1.3	υ <b>π</b> /Δ	0.30
Trichloxoethone	NC	1.3	սց/ե	0.30
1,2-Dichloropropane	ND	1.5	ug/1.	D.30
Bromadichlamamethans	KD	2.0	09/5	0.20
cis 1.3 Dichloropropend	N23	1.0	$u_{\rm Q}/L$	0.40
Toluche	בא	1.0	սց/ե	0.30
1,1,2-Trichlorosthane	כא	1.0	ng/1.	5.35
1,2-Dimblomoothame	NO	1.0	04/15	0.40
Totrachloroethene	ND	1.0	ug/L	0.40
Dibromochloremethane	NO	1.0	ug/i	5.45
Chinzobenzene	NO	1.0	14475	0.20
Bohylbenzene	תא	1.0	ug/L	5.20
trans-1,3-Dichlonopropone	בו	1.0	0g/5	0.50
Xylomas (total)	NO	1.0	ug/D	0.60
Vinyl Chloride	NO	1.0	ug/ti	0.30
Bromoform	NO	1.0	ug/5	0.20
1,1,2,2-Inbrach)oroothane	ND	1.9	09/2	3.43
Acroleia	ND	2.0	6g/L	12
Acrylonitable	כע	20	11g/1,	19
2-Chloropthyl vinyl ather	NO.	5.0	09/5	2.0
Dichlorodifluoromethame	ND	2.0	ug/L	3.43
Trichlorofluoromethana	ND	2.0	υg/5	0.00
	PERCENT	RECOVERY		
5URROGATE	RECOVERY	LIMITS	_	
Bromofluorobenzene	103	(75 - 13	٥)	
1,1-dichloraethane-d4	95	(65 - 13	5}	
Toluene-d3	103	(80 17	9)	

### Scattero California Edicon Company

### \*#Z OUTFALL

## GC/MS Volatiles

Tot-Sample ⊭: B4H1103%3 J08	Work Order #: CMX67.7AA	Matrix: NATES
MASS SPECTROMBTER/DATA SYSTEM (	MSDS) PENTATYVELY IDSNTERIED	CCMFOUNDS
PARAMETER Dis (Chloropethyl) Ether	CAS # RESIDENT 542-89-1 ND M	RRTENTION CIME DRITS Ug/L
NOTE(S):		

M. Rose t was markered against respect fricting stational assessing a temporary factor of 1

#### Client Sample 10: 364 INTAKE

#### .4X/MS Volatiles

Lot Sample #...: EdHild333 007 Work Order #...: DMX6M1AA Matrix..... PATER Date Sampled...: 08/05/04 20:30 Date Reneived..: 08/11/09 14:50 MR Run #...... 4225702

Prep Date....: 09/11/04 Analysis Date..: 08/12/04 Prep Batch #...: 4225496 Analysis Time... 01:05

Dilution Factor: 1

Analyst 10..... 015590 Instrument ID. : MSQ

Method:..... \$8946 82609

		Rayoet ind			
PARAMETER	RESETAT	TIMIL.	UNITS	MEI.	
Chlaromethane	ND ND	2.0	ug/2	0.30	
Chloroothane	ND	2.0	ug/l,	0.30	
Bromomethane	MD	2.6	ng/L	1.0	
1,1-Dichlorasthene	ND:	1.5	49/L	0,30	
Motbylene chloride	BU	1.ĉ	ug/Ti	0.30	
trams-1,2-Dichlorgethene	NIC	1.0	ug/L	0.30	
1,1-Dichloroethame	NTC	1.0	ug/h	0.20	
Chlorotorm	NC	1.6	ид/ъ	D.30	
1.1,1-Trichloronthage	NG	2.0	սց/հ	D.2C	
Carbon betrachloride	הא	1.0	ug/1.	0 20	
Benzene	כע	1.0	ug/1.	0.20	
Trichloroethene	רא	1.0	ug/5	0.30	
1., 2-Dichilaropropane	NO	1.0	ug/1	0.30	
Birmodichloromethase	ND	1 0	129/0	0.20	
cis-1,3-Dichloropropeme	NO.	1.6	69/1	2.30	
Toluene	ND	1.0	Lg/:	0.30	
1,1,2 Trichlorcethane	ND:	1.0	ug/f.	0.30	
1,7-Dichiordethane	ND	1.0	ug/L	0.40	
Tetrachlornethone	ND:	1.5	ug/L	0.30	
Dibromoch) occepthane	ND	1.2	ug/To	0.40	
Chloroboryene	ИП	1.0	99/L	0.35	
Ethylbenzeno	ND	1.0	ug/L	0.30	
Crans-1,3-Dictloropropene	ND	2.0	ug/1.	0.52	
Xylones (total)	সচ	1.0	09/1	С.В.:	
Vinyl chloride	NO	1.0	ug/1	0.30	
Brevolorm	NO	1.0	ug/L	0.30	
1,1,2,2 Tetrachloroethana	CN	1.0	129/1	0.40	
Acrolein	ND	20	Lm/E	12.	
Adaylamatrilo	NE	20	rg/L	10	
2-Chlarsophy( viny1 ether	ND .	5.0	ug/L	2.3	
Dichlorodifluctorethage	NB	2.9	աց/Ն	0.40	
Trichlorofluorome; hame	KD	3.0	ug/ī.	0.36	
	PERMENT	REUDVERY			
SURROGATE	RECOVERY	£18078			
Biowofluprobenzane	153	75 13	01		
1,2-Dichlomopthage-da	105	(65 - 13			
Toluen⊝ dē	103	(80 - 13			

## 364 INTAKE

## GC/MS Volutiles

Lot-Sample #: E08110333-007	Work Order #: GMX581AA	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM	(MSDS) TENTATIVETY (DENTIFIED	COMPOUNDS
PARAMB <u>TER</u> Bis (Chloromethyl) Ethon		#FTERMICON
NOTE (S):		

(A) Recall was presented against nearth, regional standard assuming a response factor of 1

## Client Sample ID: 344 OUTFALL

### GC/MS Volatiles

Tot Sample #:	84H110333-008	Work Order #: DMX6N1AA	Matrix WAT	ER
Date Sampled:	08/09/04 20:35	Date Received: 06/11/04	14:50 MS Run # 422	5352
Prep Date:	08/11/64	Analysis Date: 08/12/01		

Prep Batch #...: 4725498

Analysis Time..: 01:25

Dilution Factor: 1

Analyst ID..... 015590

· Instrument ID..: MSQ

Method..... SW846 82656

		REPORTING		
FARAMETER	RESULT	LIMIT	CHATTES	MEIL
Chloromethace	N⊃	3.7	ug/L	
Chloroethauc	כא	2.0	ug/h	0.35
Bromamethane	NO CM	2.0	uq/L	1.0
1,1-Dichlorgethere	כמ	1.0	ug/L	0.30
Kethylone obloride	בא	1.0	ug/h	0.30
trans-1,2-Bichlamonthage	NO	1.0	09/16	0.20
1,1 Bichloroothage	ER	1.0	u4/L	0.20
Chicroform	NCO	1.0	ug/L	0.30
1.1,1-Trichlorosthane	כא	I.O	ug/%	5.20
Carbon tetrach)oride	NO	1.0	09/2	0.20
Bonzone	NO	1.0	ug/5	0.30
Tricklaroethese	בא	1.0	ug/S	5.30
1,2-Dichloropropage	בא	1.0	0975	0.00
Amomodichloromethese	NO)	1.0	ug/L	0.30
Cia-1,3-Dichloropropend	NO	1.0	ug/S	5.30
Toluene	ND	1.0	09/5	0.20
1,1,2-Trick)ordethane	NO	1.0	ug/2	0.30
1.2-Dichlordeshade	NO	1.0	ug/2	3.43
Tetrachloroethena	250	1 . D	ug/5	0.30
Dibzomachloromethage	ХD	1.0	ug/1	2.90
Chlorobenzene	MD	1.0	ug/S	2.30
Binylbenzene	ЯD	1.D	mg/3	0.20
trans 1.3 Dichloropropene	ND	1.0	ug/L	0.50
Xylenes (coeal)	ND	1.0	υg/5	C.50
Vinyl chloride	ИD	1.0	11g/L	0.30
Bromoforn	ND	1.0	ug/f.	G. 3G
1,1.2.2-Telracideroethana	ND	1.0	ag/h	0.40
Accolein	NO	20	We/L	12
Acrylanitrila	ND	20	$\omega_{\overline{\mathbf{g}}}/\mathbf{L}$	10
2 Chloroethyl vinyl ether	6010	5.0	ug/6	2.0
Dichlorodifluoromethane	ND CO	2! = 0	ng/L	0.40
Trichlorofluoromothane	RE:	2.5	ug/L	0.30
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	Lamons	_	
Reomosluorabanzana	105	175 × 130		
1,2-Dichloroothame 64	20%	(65 - 135)		
Тоји <b>н</b> ле-¢8	104	190 - 140	ŀ	

### SEC OUTFALL

### GC/MS Volatiles

Lot-Sample #: E4H110333-008	Work Order #: GNN-SNIAA	Matrix: WATER
MAGS SPRCTROMBTER/DATA SYSTEM	(MSDS) TENTATIVENY LUENTIFIED	COMPUUNDS
PARAMETER Bis (Chipromothyl) Ether		RECENCION TIME <u>UNIES</u> Ug/L
NOTE (S) :		

M: Roselt was measured against measure assistant standard assuming a importor factor of 1.

### Client Sample ID: 152 INTAKE

## .CC/MS Votatiles

			Order #: CMX6P1AA		Matrix;	
Date Sampled:	08/10/04 02:55	Date	Received: 09/11/04	14.50	MS Run #	4225302

Prep Bate....: 58/11/04 Analysis Date..: 08/12/04 Prop Batch #...: 4225496 Abalysis Time... 01:48

Dilution Factor: 1

Analyst ID....: 015590 Instrument ID..: MSQ

Method.....: 5W945 8260B

		REPORTING		
PARAKKTER	RESULT	LEM PE	UNITS	Hen.
Chlomamethego	ND	3-0	$\frac{\overline{ug/L}}{}$	9.30
Chloroethane	ND	2 (	ug/h	0.30
Bromewethane	NC	2.0	ug/L	1.0
1,1-Gidhlorocthene	HT:	1.0	$u_0/L$	0.30
Methylene chloride	ND	1.0	ug/1.	0.30
Lrans-1,2-Richloroethene	NC	1.G	սգ/հ	0.30
1,1 Bichloroethane	ND	1.0	ug/L	0.20
Chiocoform	כא	1.0	ug/1.	0.20
1.1,1-Trinhlaroethane	NO	1.0	uq/1 <sub>0</sub>	0.20
Carbon totrachLoride	NO	1.0	սց/Ն	0.30
Renze;re	AD	1.0	ug/S	0.20
Trichlorcethese	AO	1.0	119/7.	2.20
1,2-Utablorspropage	NO.	1.0	ug/1	3.30
Bromodichlosomethane	ND:	1.0	εg/1.	0.30
C18-1,3-Dichloropropese	M17	1.0	vg/1	3.30
Toluene	KD.	1.0	_13/L	a.30
1,1.2 Trichloroethane	MD	1.0	ug/h	0.30
1,2-Dichlordethame	MD.	1.0	og/L	0.40
Tetrachlorsothene	ND	1.5	ug/L	0.30
Dibromocalocomethane	мо	1.0	ug/h	0.40
Chlocobenzene	ип	1.4	ug/L	0.35
Ethylbendone	ΝΤΩ	5.0	ug/L	0.35
trans 1.3-Dickleropropenc	ND	1.0	ug/1.	0.50
Xylones (total)	מא	1.0	0g/b	0.60
Vinyl chloride	NO.	1.0	սց/և	0.30
Bremoform	яD	1.0	ug/ii	0.30
1,1,2,2 Tetrachlorosthang	ND CK	1.0	ug/f.	0.40
Acrolein	CM	20	W9/L	12
Merylenibrile	NO	20	ug/L	10
2-Chloroethyl vinyl ethor	ND	5.0	ng/L	2.0
Duckloredifloaromethane	NE.	29.10	29/L	0.40
Trichlorofluoyomethane	RD.	2.5	ug/h	0.30
	винцикт	RBCOVERY		
SURROGATE	RECOVERY		_	
Brumofluorobenzene	704	(75 - 130)	_ 	
1,2-Dishloroethame-da	105	(65 - 135)		
Talmene-d8	102	(90 - 130)	1	

#### 162 INTAKE

### GC/MS Volutiles

Lat. Sample #: 24H1:0333-053 Wo	ork Order #: GM	ХБРІДА	Matrix:	WATER
MARS SPECIROWRIER/DATA SYSTEM (MS	DS) TRNTATOVEL	NATAILKECT K	ССМБОЛИРВ	
DAMAMETER Bis (Chionomethyl) Roher	_ СА <u>Я #</u> 543-96-1		REPENTION FIME	<u>OMITS</u> Ug/2
NOVER   S   :	response factor of 1.			

### Client Sample ID: 122 DUTYALL

### .CC/MS Volatiles

<b>Lot-Sample #:</b> E4E110334 010	Work Order #: GMX60	lAh Matrix	MATER
Date Sampled: 08/10/04 03:15	Date Recoived 19/11	/04 14:50 MS Run #	4225302

Prep Date ..... 98/11/04 Analysis Dale... 08/12/34 Prep Batch #...: 4225490 Analysis Time... 02:09

Dilution Factor: 1

Analyot (D..... 015690 lustrument ID. .: MSQ

Mothod...... 50846 32608

		REPOSITE	15-		
PARAMETER .	RESULT	LIKIT	UNITS	MDL	
Chlorotethana	NO CK	2.0	Ng/5		
Chloroothame	ND	2.0	09/2	2.30	
Bromomethame	ND	2.0	11g/f	1.0	
1,1-Dichloracthone	ЯD	1.0	og/ħ	0.30	
Methylene chloride	ND	1.10	$\omega_I/L$	9.30	
trans 1,2-Dichlorocthese	NE	1.5	и <del>у</del> /ь	0.30	
1,1-Dichloroothane	OT4	1.0	ug/Tr	0.20	
Chloroform	NE	1.6	09/1	0.30	
1,1,1 Trichloroethamn	ND	1.0	ug/L	0.20	
Carbon Leicachinnide	מא	1.0	ug/1.	0.20	
Densene	NO	1.0	09/5	0.40	
Tricklaroothese	NO	1.0	ug/1	2 30	
1,2 Dichloruprepand	NO CO	1.0	119/1	0.30	
Bromodichloromothane	ND	1.5	W9/1	0.30	
cis-1,4 Richlalopropend	800	1.0	eg/L	0.30	
Talgene	KD:	1.5	ug/f <sub>4</sub>	0.20	
1,1,2-Trichlorosthaue	MD	2.0	98/L	0.30	
1,2-Bichloroothame	Иυ	1.0	ug/L	0.40	
Tetrach)oroschene	MD	1.0	ug/1.	0.32	
Dibromothloromethage	সাল	0	ug/L	0.40	
Chlorobenzene	MD	1.0	ug/L	0.40	
Kthylteazene	NO	1.0	ug/L	0.20	
trans-1,3-Dichioropropens	ND	1.0	vg/L	0.50	
Xylenes (fotal)	NC	1.0	eg/l.	0.50	
Vinyl chloride	NE.	1.0	ug/7-	0.30	
Bromofosm	ND	1.3	Uŋ/L	0.30	
1,1,2,2 Totractiondethand	K#	1.::	ug/L	0.40	
Aprole: p	NII	20	ug/T,	12	
Acrylonitrile	ND	30	119/5	13	
3-Chloroethyl vinyl scher	ИD	5.0	ug/2	2.0	
Dichlorodičluoromethano	ND	2.0	ug/S	2.42	
Trucklorofluoremethage	MD	2 0	ug/L	G.3G	
	PERCENT	RECOVERY			
BURHINGATE	ERCOVERY	LIMITS			
Bromp: Tworebeutens	104	175#	c)		
1,2-Dicklerosthame-64	193	165 - 139			
Toluene-dR	103	(90 13)			

#### 152 OUTFALL

#### GC/MS Volatiles

Not Sample #: E4H110333 010 Work Order #: CMX6Q1AA Matrax: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

		RSTIMATED	RETENTIO	N
PARAMRTER	CAS #	RESULT	TIME.	UNITS
Bis (Chlocomethyl) Biher	542-88-1	NU	N)	0q/3/

MOTR (S) :
M. Result was measured against nearest issumer standard assembly a response factor of 1.

### Client Sample ID: 364 INTAKE

#### GC/MS Volatiles

Matrix..... KATES Lot Sample #...: D45110333-011 Work Order #...: GMXSR1AA Date Sampled...: 08/10/04 02:15 Date Received..: 68/11/04 14:50 MS Run #.....: 4575300

Amalysis Data..: DB/12/04 Prep Date....: 08/17/04 Analysis Time..: 02:?0 Prep Hatch #...: 1225496

Dilucion Factor: 1

Analyst ID.,... 015590 Instrument ID.:: NSO

-	Method; 50844 82603			
		REPORTING		
PARAMETER	<u> </u>	I'IWI'I	UNITS	MCL
Chloromethans	NO	2.0	ug/2	0.20
Chloroethand	כא	2.0	ug/5	5.30
Browniet/2006	ем	2.3	ug/L	1.0
1,1 Dichloroethene	NU	1.3	ng/L	0.30
Methylono oblaside	ND	1.0	ua/T	D.3D
trams-1,3-Dich)croethone	RC .	1.0	ug/L	0.30
1,1 Dichlorcethaue	MC	1.0	ug/L	0.20
Chlorotorm	טע	1.0	39/L	G. 4G
t,1,1-Tilehloroethann	ND	1.0	ug/1	0.70
Enghom bebrackloride	NO	1.0	ug/S	0.20
Denzeno	NO	1.0	04/%	0.20
Trichloroethens	NO	1 . G	ug/h	5.35
1,2-Dichloropropane	RD	2.3	ոց/բ	0.30
Recommediablerowethans	Mili	1.2	uq/Ti	0.30
cis-1,3 Dictioropropese	ND	1.0	ug/L	0.30
Toluené	NU	1.5	ug/L	0.30
<pre>1,1,2-TrichlorosChane</pre>	ND	1.0	WE/L	a.3ù
1,2-D/chlorsethane	ИD	1.D	ug/L	C-4G
Tetrachloroethonc	ND	1.0	ug/L	0.30
Dibromachloromethaue	ЖD	1.0 '	09/3	1: _ <b>G</b>
Chloropenzeza	ND	1.0	ug/5	0.30
Ethylbenzend	υυ	1.0	0g/5	0.20
grans-1,3-Bichlocopropere	đи	1.0	Uq/L	0.50
Xylenes (total)	ND	1.3	ա:j/L	0.8D
Vinyl chloride	NU	1.5	eg/L	0.30
Sramoform	NU	1.5	ug/L	0.30
1,1.2,2-Tetrachlosoethane	ND.	1.0	Wg/L	0.40
Accolein	ND	20	eg/L	12
Acrylenitrile	CN	20	11g/L	10
2 Chicrosthyl vinyl ether	כני	5.0	ug/5	2.0
Dichloredit-woromethame	CK	2.0	9 <b>9</b> /5	5 43
Tricklarofluoromethane	МЭ	2.0	ng/1.	0.30
	SERCRNT	RECOVERY		
SURROGATE	RECOVERY	LIMITS		
Aronofluorobensene	102	175 - 14	31	
1,2 Bichlozoethane-d4	101	165 - 13	5:	
To)unne-dB	102	(RO - 13	5)	

### 364 INTAKE

## GC/MS Volatiles

Lot Sample #: 24E1125333-011	Work Order #: GMX9R1AA	Matrix: WATER
MASS SPECTROMSTER/DATA SYSTEM	(MSGS) TENTASIVELY INSUTIFIED	COMPOUNDS
PARAMETER	<u>CAS # ESTIMATED                                    </u>	RETENTION THEA: UNITS US/1.
NOTE(S):		

M. Result was measured equips, means internal standard materials a response factor of  $\Gamma$ .

## Client Sample ID: 324 OUTPAUL

#### CK:/MS Volatiles

		Work Order #: CMXATIAA		
Date Sampled	GB/10/04   02:35	Date Received 08/11/04	14:50 MS Rum \$:	4225AD2 .

Prep Date..... 06/01/04 Analysis Date..: 06/02/04 Prep Batch #...: 4225496 Analysis Time..: 02:51

Dilution Factor: ?

Toluene-da

Analyst ID....: 015590 Instrument ID..: MSQ

Method..... BKR46 926(B

		REFORTI		
PARAMETER	PESUIT	L.T. <u>M.T.T.</u>	UNITS	MD:
Chloromethane	но	2.0	ug/2	5.28
Chicrosthane	כא	2.0	ug/S	0.20
Hromomothane	NO	2.6	ug/2	1.0
1,1-7: Chickethese	כוע	1.0	ug/S	0.30
Methylene chloride	ZD	1.0	ng/5	2.30
Erans 1,2 Orghlorpethene	ND	1.0	ug/2	0.30
3/1 Dichlorcethane	ЯD	1 0	ag/L	0.20
Chioroform	MD	1.0	ug/L	0.30
<pre>1, 1, 1-Trichloroschene</pre>	NIT)	1.6	./q/L	0.20
Carbon totrach)oride	ND	1.0	$u_{ij}/L$	a.30
Renzenc	NE.	1.6	ug/t.	0.30
Trichlosoethene	NIC	E	ng/L	0.20
1,2-Dichloropropane	NT:	1.0	աց/հ	0.30
Bromod.chlocomethane	ND	1.0	ng/1.	0.30
cis-1,3-Dishloropropene	NIC	1.0	Uq/L	0.30
Foluenc	NO	:.0	ug/L	0.70
1,1,2-Trichlorosthamn	NO	1.0	ug/1,	0.30
N,2-Dichloroethang	NO	1.0	09/5	0.40
Cotrachlorocthene	מני	1.0	ug/1	0.30
Dibromochloromethese	10 CB	1.0	ug/:	0.40
Ch: oxopenzene	ИD	1.0	14g/L	3.40
Biliylbenzene	MD	1.D	ug/1	0.20
trans-1.3-Dichloropropede	ND	1 0	1:g/1.	0.50
Xylenes (total)	8/12	1.5	ug/L	0.40
Vinyl chloride	KD	1.5	ug/L	0.30
Bromojorm	ND:	1.0	ug/6	0.30
1.1,3,2-Telcachlorsethane	ип	±.2	ug/L	0.40
Accoletn	ир	20	ug/L	1.2
Aprylomitrate	ND	20	ug/1.	10
2 Chloroethyl vinyl other	4D	5.0	09/1	2.0
Dichloromifluoromethane	άK	2.0	ug/L	0.45
Trishlorofluoromethame	30	7.0	ug/1.	0.32
			2.	
	PERCENT	RECOVERY	,	
SURROGATE	RECOVERY	1/2W2428		
Bromofluorobonzene	102	(75 - 13	0:	
1,2 Dichloroethane-84	105	165 - 13	h;	
Tolupos - 40	1	44.4		

(60 135)

## 344 OUTPALL.

## GC/MS Volatiles

Lot Sample #: 840110333-012	Work Order W: SMX6T1AA	Matrix: WATER		
MASS SPECTROMETER/DATA SYSTEM	MSDS) PENTATIVECY IDENTIFIED	Симелира		
Bis (Chloromethyl) Bitter		RETENTION TIME UNITS 1972		
MCTE (S) :				

## Ctient Sample ID: LEX INTAKE

### OC/NO Volatiles

Lot-Sample #...: E4H110333 G13 Work Order #...: CMXEV1AA Matrix,..... WATER Data Sampled...: 08/10/64 09:15 Hate Received..: 08/11/04 14:50 MS Run #..... 4225:00 Prep Date....: 08/15/04 Analysis Date.:: 08/12/04 Amalysiu Time..: 03:12

Prep Hatch #...: 4225496 Dilution Factor: :

Analyst 10....: 015590

Instrument III.; MSC

Method..... 80844 82603

PARAMZOER		REPORTIN	<b>a</b>	
Chiloramothane	<u>RESIDAT</u>	<u> LIMIN</u>	Gaung	MCT
Chloroethano	ND:	2.0	ug/L	- 0.30
Browningpane	MB	2.3	0q/L	D . º 5
1/1-Dicklordethone	CM	2.0	ug/2	1 0
Methylone chloride	ЯD	1.0	υg/i,	0.30
trans-1,2-Cichisroethene	МD	1.0	υg/L	U.30
1.1-Dichlorouthane	ND	1.0	ug/L	D 30
Chlaraform	CK	1.0	ug/L	0.26
1.1.1 Trichtorochhane	ND	1.0	ng/1	0.30
Combine to the contract of the	ND	1.5	ug/f.	0.30
Carbon freiachloride Deuzeno	תא	0.70	ug/1.	0.30
· · · ·	ND.	1.0	ug/L	0.40
Transcorpethene	ND	1.0	109/E	0.30
1.2-Dichloropropage	RC.	1.5	ug/L	0.30
Oromod)etlaromethane	пи	1.4	09/0	
cis-1,3-Dichtoropropene	MO	1.0	ug/1.	0.30
Tolnene	ND	1.0	ug/s. ug/s.	0.30
1,1,2-Trichlornethand	NG	1.0	_g/L	0.30
1,2-Biculoroothane	ND.	1.0	•••	0.3D
Petrachloroethend	NP	1.0	ug/L	9.40
Dibtomochleromothane	ND	1.0	ug/:-	0.30
Chlorobonzuma	NC	1.3	∵⊊/L	0.40
Enbytheszone	CK	1.0	Un/L	D.70
manz-1, 5-Dichindopropene	NO	1.0	ug/:	0.20
(ylenca (Lota))	ND:		19 <b>g</b> / <u>1</u>	0.5a
%ipyl Chloride	NID	1 - 1:	იმ/ნ	0.80
iromolurm	иD	1.0	ug/h	D.30
,1,2,3-Telsach)olosthage	ND	1,0	ug/ī.	5.16
scholain	ND.	1.5	%g/L	0.40
urylonitrile	NTD	20	աց/և	1.3
Chlorocthyl vinyl mrher	ND	20	ug/S	10
ichlorodificosomethane		5.0	ug/L	2.0
richtorof/ueromathane	ND	2.5	tog/ti	a.40
account Hatti	ИD	2.0	ug/L	0.30
	NE DOES III			
<u>Ureckare</u>	PERCENT	RZCOVRRY		
rozot liorobenzene	RBCOVERY	_ Li <u>mits</u> _	-	
.R-Dichloroethane-da	104	(75 - 330)		
Mueno 경제	105	(65 - 135)		
	103	(80 - 130)		

#### 162 INTAKE

#### GC/MS Volatiles

Lot-Sample #: K4HI10332-013	Work Order #: FMX6VIAA	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM	(MSDS) TENTATIVENY TORNTIPIES	) COMPOUNDS
PARAMETER Ans (Chlosometry) Ether	CAS . ■ ESTIMATED HESULT _ 542-86-1 ND F	RETENTION TIME CNITS Ug/L
NOTE(S1:		

MI: Result was premared applied neglect internal standard abouting a response larger of the

#### Client Sample 1D: 152 OUTFALL

#### GC/MS Volatiles

Lot-Sample #	R4H110333-014	Work Order #: GMXSW1AA	Matrix WATER
Date Sampled:	28/10/04 08:55	Date Received: 09/11/04	14:50 <b>XS</b> Rum <b>F</b> 4225302 .

Prep Date.....: 08/11/04 Analysis Date..: 08/12/04 Prep Batch #...: 4225496 Abalyais Time..: 03:34

Dilution Factor: 1

Analyst ID..... 018590 instrument ID..: MSG

Method..... 50846 82603

		REPORTS	ig		
PARAKETEK	RESULT.T	E-CMTT	UNITS	MDD	
Chloromethang	ND	3.0		0.30	
Chloroethano	иn	2.3	ug/L	U.3D	
Bromomethaue	RD	2.3	ug/L	1.0	
1.1-Dichloroethene	NO	1.0	ug/1.	0.30	
Mothylene chioride	NO	1.0	ug/5	9.30	
trans-1,2-Dicklorpethene	NO	1.0	ug/L	0.30	
1,1-Buchlousethame	כע	1.0	ng/1.	2.23	
Chlorofory	No	1.0	ug/5	0.30	
1,1.1-Triphloreethage	ND	1.0	ag/L	0.20	
Carbon tetrachloride	ND	1 0	ug/6	0.30	
Lenzeno	NO	1.0	ug/L	U.30	
Trichloroschene	NU	2.0	ug/L	0.30	
1.2-Dichloropropane	ME:	1.6	ug/L	0.30	
Bronwdichloromethane	ND	1.6	ug/L	0.30	
cis:1.3 Dichloropropone	מא	1.0	աց/ե	0.30	
Toluene	СМ	1.0	ug/1.	0.20	
2,1,2-Trichloroethams	N⊃	1.0	Ug/1	0.20	
1,2 Dich/orcethane	MD CK	1.0	04/1	0.40	
Totrachloroethand	NO	1.0	ug/1	7 30	
Dibromochlorome(Same	NE)	1.0	ng/1	3.40	
Chioreagnzene	NO.	1.5	ug/£	0.30	
RI hylbodiene	XD	1.5	ug/6	0.20	
ltams-1, t-Dichloropropens	ND	1.2	vg/L	0.50	
Xylenes (fotal)	ыD	1.5	ug/L	0.80	
Vinyl chloride	ND	5.0	1g/L	0.30	
BromoSeem	NTD.	1.0	ug/L	0.30	
1.1,2,2-Totrachloroethane	MD	1.0	ug/L	0.45	
Acroleta	NO	2.5	ug/h	12	
Adiylomitrila	NO	20	Ug/b	10	
3-Chisropthy) vinyl athor	CK	5.0	ug/L	20	
Dichloredifluoromethane	NO	2 0	ng/L	G.4G	
Trichioraflucyomethane	RD	2.0	ng/L	0.30	
	PROCEST	RECOVERY			
SUBROGATS	RECOVERY	STIMIL			
Promoticorobenzana	104	175 - 13			
1,2-Dichloroskhame-d4	100	(95 - 13)			
Toluene dR	154	(80 - 13)			

#### 142 OUTFALL

#### CC/MS Volatiles

Lot-Sample #: 848110332-014	Work Order #: GMX6W1AA	Matrix: WATER
MASS SPECTROMETRIK/DATA SYSTEM (	MSUS: TENTATIVENY 10ENTIFIED	CORPOUNDS
PARAM <u>ETER</u> D(x (Chloromethy)) Riber	BSTIMATED	RETENTION TIME UNITS ng/L
NOTE (S) :		

Mr. Result was measured against nearest internal standard assuraing a response factor of 1.

## Client Sample 10: 364 INTAKE

	GC/MS Volati	lсв		
Lot-Hample #: 848110333-015 Date Sampled: 08/10/04 38:15 Prop Date; 08/11/04 Prop Batch #: 4225496 Dilution Factor: 1 Analyst ID: 015590	Mork Order #: Date Received Analysis Date Analysis Time Lustrument TD Mei hod	P8/11/04 : 08/12/04 : 08:55	14:53 <b>M</b> S Rug	к WATER n # 4725303
PARAMETER		REPORTING		
Chloromothage	HESTLT	7_W1.2	<u>un</u> eta	전11
Chlorocthage	ND:	2.0	<u>ug</u> /1.	0.30
Bromomethane	Nu	2.5	vq/L	0.30
1.1-Dichlorgethene	NA NA	2.0	ug/L	1.0
Methylane chlorido	NO NO	1.0	ug/1	0.43
hrans-1,2-Dichloroetheno	712	1.0	ug/1	2 00
1,1-Dichlorosthane	ND	1.6	ag/L	0.30
Chloraform	ND	1.0	ug/h	0.20
1,1,1-Trichlorocthane	NC	1.6	ug/L	0.30
	ND	1.0	ug/L	0.20
Carbon betrachloride Dénzeus	מא	1.0	ug/1.	0.40
·································	H2:	1.0	ug/:	0.40
Trickloroethean	NO	1.0	109/1	0 00
3. 2-Dictilorapropale	KD.	1.5	2g/h	0.30
Bromsdichlosomethane	RD	1.5	uq/L	0.30
cus-7.3-Dichlaroproyene	ΝП	1.0	<u>Կց/Ն</u>	0.30
Poloene	MD	1.0	ug/1.	0.35
1.1,2-Trichlorosthane	כת	1.0	11g/b	0.30
	CK	1 0	Ng/L	0.40
	ED	1.0	rg/L	3.40
	ND	1.5	ug/L	0.40
Chlorabanzene	Ki:		/T	

SURROGATE	PERCENT RECOVERY	PECCVERY <u>L</u> IMIDS		
	NE	2.0	ug/f.	0.30
Trichlorof2moromethane		2 0	ωg/L	0.40
Dichlored(tluoromethane	พบ	5.0	49/⊃	7 0
2 Chlocosthyl vinyl sther	ND		ug/5	10
Aprylonitrile	NO	20	ug/1.	12
Auroloup	כא	20		0.40
1,1,2.2 Tetrachlorsothane	NU	1.0	0:4/L	0.30
Bromoform	NC	1.5	49/L	0.30
Viny) chiorida	ND	1.0	27/L	
Xylenca (cotal)	ND	1.0	09/2	0.80
tmans-1.3 Bickloropropene	ИŃ	1.0	ug/5	5.53
Ethylbeuzene	HII	1.6	ug/1.	2.20
Chlorobanzene	ND:	7.5	H9/L	0.30
Dibtomochlogogethans	ND	1.5	աց/ը	0.40
Tetrachilocophane	60	1.0	rg/L	3.40
i,2-Dichlorcethano	ЖD	1 0	NG/L	0.40
1.1,2-Trichlorosthage	NO	7.0	11g/b	0.30
Toloene	MD	1.0	ug/1.	0.35
cus-1.3-Dichlaropropene	ИП	1.0	4975	0.30
Brumsdichlosonæthane	MD.	1.5	uq/L	0.30
		1.0	20/11	u. 34

SORROMATE	PERCENT	PECCYERY
	 RECOVERY	<u>L</u> IMIOS
Stromof lucrobensens	105	(75 130)
1,2-Dichloroethaue-d4	50	(65 - 105)
Toluenc-d3	102	180 - 1901

#### 344 INTAKE

## . GC/MS Volatiles

Dob-Sample #: B4H(10339-015	Nork Order #: MMX6X1AA	Matrix: WATER
MASS SPECIFICMETER/DATA SYSTEM	(MSDS) TENTACIVELY IDENTIFIED O	OMBOURDS
FARAMETER  Bis (Chlorovethyl) Ether	C2 # d = -	ETENTION TMSONITS
NOTR(S):  M. Reput was recovered against needed internal standard assum	Ng a Risponse Rector of 1	— — <u> </u>

### Client Sample In: 344 OFFFAIJ.

#### CC/MS Volatiles

Lot-Sample #...: E43110323-016 Work Order #...: GMX601AA Matrix.......: NATER Date Sampled...: 06/10/04 06:35 Date Received...: 08/11/04 14:50 MS Run #.......: 4225302

Prop Bato.... 08/11/04 Analysis Date..: 08/12/04 Prop Batob #...: 4225499 Analysis Time..: 04:16

Dilution Factor: 1

Columne de

Analyst ID.,...: 015890

Instrument 11... Mag

Method...... 99846 6260B

		RBPORT1	NG		
PARAKETER	RESULT	LIMIT	DNITS	MOD	
Chloromethame	ND	2.3		0.3n	
Chiosoethano	ND	2.3	ng/b	0.35	
Bromomethane	N <sub>2</sub> )	2.0	ug/2	1.0	
1.1-Bichloroethang	NO	1.0	ug/2	0.30	
Methylead chloride	ЯD	1.0	νg/5	0.30	
Lrans-1,2 Dichloractione	MD	1.0	ug/L	0.30	
1,1-Dichlordethana	DD O	1.0	ug/h	0.20	
Chloroform	MIS		ng/L	0.30	
1,1,1-Trich(procthage	ND	1.4	ug/L	0.20	
Carbon tettachloride	ND	1.0	ug/1.	0.40	
Hodzege	ND	1.0	ug/:	58.0	
Trichloraethode	NO	1.0	09/1	3.30	
1,2-bittloropropano	ND	1.0	69/2	0.30	
Bromodichlozomethage	MD	1.5	ಬಹ್ರ/ಗ	0.30	
ate-1.3-Dichlaroprogene	ND:	1.5	ng/L	0.30	
Toluena	ип	1.6	ug/L	0.35	
1,1,2 Trickleronthage	ИD	1.0	ug/1.	0.35	
1.2 Dichlaronthame	NO	1.0	0g/L	5.40	
Tetrachloroethese	כני	1.0	ug/L	0.30	
Diboomochlosomethage	NO	1.0	1:g/L	0.30	
Chlorobentone	NU	1 0	Ug/L	0.30	
Buhylbonzone	MD.	1.0	ug/fi	0.20	
trans 1.3-Dichlomoprogens	Nυ	1.0	ug/Ti	0.20 0.50	
Xylones (Lotal)	HD	1.0	uq/2	5.85	
Vinyl chlom(de	מא	1.0	ug/2	0.33	
Brumoform	ND	1.0	ng/i.	G. 4G	
1,1.2,2-TetrachlorGethand	NO	1 0	ue/L		
Acrolein	NIC	20	ug/L	G.40 12	
Accylonitrale	ND	20	-9/L -9/L	7.C	
2-Chioroethyl vinyl either	N)	5.7	Od/L		
Dichlorodifluoromethanc	כא	2.0	**	2.0	
Cricklerofluoremethane	ND	2.0	თე/ბ თე/ბ	0.40 0.33	
	PERCENT	55000000	_	-	
SURROGATE	_ RECOVERY	VKAVODER			
BromoSimorobonzene	105	Limits	<u> </u>		
1.2-Dichlotoethand d4	100	(75 ± 10)			
Toluenc d6	104	(65 - 13)	5)		

(30 - 130)

104

### 344 OUTFALL

## GC/MS Volatiles

int-Sample #: R4Hl1D353-015	Nork Order 8: UMX601AA	Matrix: WATER
MASS SPECTROMETER/DATA SYSTEM	(MSDS) TENTATIVENY IDENTIFIED	FOKPOUNDS
Bis (Chiscomethy2) Ether	Christ Brown	RETENTION TIME UNITS UNITS
MOTE (8) : M. Rout was meloared against repres (such a version accord)	MANAGE	<del></del>

## Client Sample ID: 143 INTAKE

## GC/MS Volatiles

Dot-Sampled  Pate Sampled  Prep Date  Prop Batch #  Dilution Factor:	06/10/04 14:55 06/12/04 4226239	Mork Order #: GNX811AA Matrix	(ATB) (22614 <u>1</u>
Amalyst ID;		lmatrument ID: MSR McUtad SW846 52608	

PARAMETER	DE DOL O	WEZORO1	MG.	
Ch!oromethage	RESULT	<u> </u>	<u> </u>	<u>X</u> DI
Chlosochhane	כא	2.0	υη/Σ	0.30
Doomomethand	NO NO	2.0	$\log/L$	5.35
1/1 Dichlargethens	ND	7.0	11g/5	1.0
Methylene chloride	NL:	1.0	og/L	0.30
Crans 1.2-Dichloroethene	ND	1.0	ug/fi	n.30
1,1-Dichlorsethand	NO NO	1.0	ug/1,	0.30
ChingoSorm	ND ND	1.0	49/2	2120
1,1,1-Trichlorgethand		1.5	19/E	a.30
Carbon tetrachloride	ИD	1.0	ug/t.	0.29
Неписпе	שני	1.0	ug/L	0.30
Trimilayoethene .	35	1.0	ug/L	0.30
1,2 Dichloropyopeno	NC	7 0	rg/L	0.30
Bronwdichloremethane	ND:	1.3	0  q/L	0.30
Cla-1, %-Dichloropropone	HD	1.0	ug/:,	5.30
Tolugne	ND	1.0	0g/5	0.30
1.1,2-Trichtorocthage	ND	1.0	We/L	0.30
1.2-Dichloroethage	MD	1.5	ug/J.	0.30
Tetrachiosophitene	ND	1.0	ug/5	0.40
Dibromodiloromethane	הא	1.0	11g/C	2.30
Chlorobennese	ЯD	1.0	ug/L	0.40
Ethylbonzene	NC	1.5	ug/h	D.30
	NO	1.0	ug/L	9.20
Lrans-1,3-Dichloropropend Xylenes (total)	NO.	1.0	09/2	3.53
	WD.	1.0	ug/h	0.80
Vinyl chlosida Brotocosm	NIT	1.6	ug/L	0.30
	CK	1.0	09/5	0.35
1,0,2,0-Totrachloroethane Acrolein	MЭ	1.0	eg/f	J 40
	2/15	20	og/L	12
Accylonitile	NTI	25	ug/5	19
2-Chicroethyt vinyl ether	90	5.0	ug/ii	2.0
Distinced:Lineromethane	No	3.0	ug/f	0.40
TrichloroCluoromethate	NE	2.0	og/L	0.30
	PERCENT	RECOVERY		
BIRROGATE	RECOVERY	<u>DEME</u> TR		
BrownfTuordonsele	46		<del>.</del> .	
1,2 Pichlaroethann q4	1.05	(65 - 138		
Toluene-de	9.8	197 - 135		

(80 - 130)

94

#### 152 INTAKE

#### GC/MS Volatiles

Lot Sample #: B4H110333 017 Work Order #: GMX611AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY COENTIFIED COMPOUNDS

ESTIMATED EFFENTION PARAMETER CAS 4 RESULT Bis (Chloromethyl) Eiber 542-88-1 ag/L ND

NOTE (S) :

M. Read these measured against nearest 1 storest standard assuming a response factor of 1.

## Client Sample ID: 162 COTFALL

#### CC/XCS Volatiles

Lot-Sample #: R4H110333-016	Work Order #: GMX621AA	Matrix WATER
Date Sampled: 00/10/04 15:19	Date Received: 09/11/04 14:5	0 MS Run # 6205913
Frep Date 08/11/04	Analysis Nate: 09/12/04	
Prep Batch #: 9225515	Analysis Time: 01:05	
Dilution Pactor: 1		
Analyst ID 018590	Instrument ID.:: MSR	

Method.....; SW846 826uR

		REPORTES	iG	
PARAMETER	RRSULT	DAMES	UNITES	MDL
Chloromethane	NTC .	2.2	ug/L	D.35
Chlorostbane	מא	2.3	ug/L	0.30
Brownmethade	NO)	2.0	ug/%	1.6
1.1-Dichlocomthene	כא	1.0	11975	2.33
Methylana chloride	71.0	1.0	ug/L	0.30
brans 1,2-Dichloracthone	ND	1.0	ug/S	2.40
lyl-Dichloroothane	ND	1.6	ng/L	G. 20
Chloreform	ND	1.0	20g/L	0.30
1,1,1 Trichloroeubano	MD	1.0	ug/To	0.20
Carbon Lebrachloride	MD	1.0	ug/Ti	0.30
Bénzene	NE:		աղ/Ն	0.30
Trichloroothene	NE	1.0	սց/1	0.30
1,2 Bichloropropann	כא	1.0	ug/1.	0.20
Broyoulethloramothage	NЭ	1.0	09/5	0.30
cis-1,3-Dichloropropend	ZK	1.0	ug/1	0.30
Toluene	NO	1.0	rg/:	3.30
1,1,2-Trichlorderhape	ND	1.0	vg/L	0.30
1,2-Dichiorocthane	ND	1.0	2g/h	9.40
Totrachloroethens	KE.	1.5	ug/To	0.30
Dibromochlotometoane	ND	1.6	99/L	D.45
Chlorobodzane	200	1.0	ug/1.	0.32
Ethylbonzene	NΠ	10	09/1	0.20
trans-1,3-Dichloropropend	NO	1.0	ug/L	5 50
Xylemes (hotal)	NO.	1.0	ug/t.	0.00
Vinyl ablocide	NO	1.0	ng/f.	0.30
Bramaiore.	ND	1.5	ug/L	a.30
1,1,2,2-Tetrachloreshine	NE	1.5	2g/L	0.40
Accolein	NE	20	-g/Ն	12
Acrylonitrile	ИD	20	Uq/L	:5
2 Chloroethyl vinyl ether	HT)	S. G	ug/1,	2.0
Dichlorodifluorumethane	ND	3.0	09/5	0.45
Trochlorofluoromethane	XD CX	2.0	uq/5	0.30
			3412	V.28
	PERCENT	akcovery		
SURRICHATE	BECOVERY	NEMITS		
Bromof Luorobenzano	99	105 - 198	s.T	
1,2-Dichlorosthame 64	104	155 139		
Toluene-dB	99	(50 130		
		1 4 = 21	-,	

#### 162 OUTFALL

### DC/MS Volatiles

2.of Sample #: 749110333-018	Work Order #: GMXSZIAA	Matrix: WATER
MASS SPECIROMETER/DATA SYSTEM	(MSDS) TENTATIVENY IDENTIFIE	) COMPOUNTS
PARAMRTER Bis (Chloromethyl) Rober	ESTIMATED	REIBERTION TIME LEFTS
NOTE (S): $M: Result was recogned against recognitional values assume that the second of assume that the second of the second$		

#### Client Sample ID: 364 INTAKE

#### GC/MS Volatiles

Loc-Sample #:						Mmtrix	
Date Sampled:	ds/10/04 [4:18	Date	Received:	09/11/04	14:5:0	MS Run #,	4275313

Prep Date..... 05/11/04 Analysis Date..: 08/12/04 Prop Batch #...: 4325515 Analysis Time... 01:27

Dilution Factor: 1

Amelyst ID..... 019590 Instrument ID. // ESA

Method...... 58846 03603

	MCCROO	/16/14/0	05	
		REPORTING		
PARAMRTER	RESULT	COMPT	UNDES	
Chloromethase	NG	2.0	ug/L	U.3D
Chloroethane	NC	2.0	ug/l.	0.30
Brompmethane	ND	2.0	ug/L	1.0
1,1 Dichloroothene	ND	1.0	$w_0/L$	D.30
Methylene chloride	NTi	1.6	113/1.	0.30
traus-1,2-Bichloropthere	ND	1.0	ug/L	0.30
1,1 Dichloroetbade	NO	1.0	ug/L	D. 20
Chlorotorm	NTi	1.6	49/1/	0.30
1,1,1-Trichlerosthams	ИD	1.0	Ug/L	. 0.20
Carbon formachlaride	ип	1.0	ug/L	0.30
Залхале	кū	1.0	ug/li	0.30
Trichloroethene	כא	1.0	ng/%	0.30
1,2-Dichloropropane	NO	1.0	ug/L	0.30
Bromodichloremethane	พา	1.0	ng/h	0.00
cis-1,3-Dichlarapropone	כא	1.0	uq/L	0.20
Tolucae	CM	1.0	ug/L	38.0
1,1,2-Trichlorcethane	СИ	1.0	ug/ti	5.30
1,2-Dichleroethane	NO	1.0	09/7/	0.40
Tetrachlorockhong	AD	1.0	ug/D	0.40
Dibromoch!oromethane	SCR	1.0	ug/1	0.40
Chilorobenzene	MO	1.0	ug/L	0 30
Buhylbenzena	NO	1.0	ug/1	0.20
trans 1,% Dichloropropose	ND	1.0	eg/L	3.50
Mylenes (total)	NO.	1.0	11g/7	J 00
Vinyl chloride	ND	1.0	Eq/2	3.30
Brampform	ND .	1.0	ug/1	3.39
1,1.2.2-Tetrachlocosthand	ND	1.5	ug/il	0.40
Accolmin	ND	20	$\pm ig/L$	12
Acrylonitrile	ND	20	ug/L	10
2-Chiomoethyl Vinyl ether	ND:	5.0	աց/և	2.0
Dickloredifluoromethane	ND	2.0	$\Delta q/L$	0.40
Trichlorofluoromethane	ND:	2.0	± <u>4</u> 76	a.39
			_	
	PERCENT	RBCCVSRY		
SURROGA1 &	RECOVERY .	CHMITS	_	
Gromafluorabentense	99	(75 - 200)	l	
1,2 Sigh)groothage-84	7.05	(65 - 14a)		
∩oluene-d0	96	:Ed [30)	l	

#### 354 INTAKK

#### GC/MS Volatiles

Lot-Sample №: R4H110333-319	Mork Order #: GMXS31AA	Matrix: WATER
MASS STECTROMETER/DATA SYSTEM	(MSUS) TENTATIVELY TORNTIFIED	; COMPOUNDS
PARAMETRR Dis (Chloremothyl) Biber		RETENTION TIME UNITS OG/T
MOTB (S): M: Recall this many respect against respect internal standard assure	ming a scapourle factor of 1	

#### Client Sample ID: 324 DITTAIL

#### CC/MS Volatiles

<b>12nt Sample 8: ⊻4.813</b> 033	93-020   Work Order #: GMX6418	A Matrix NATER
<pre>Pate Sampled 08/10/04</pre>	14:35 Date Rossived: 00/11/0	04 14:50 MS Run # 4225313
Prep Date: 08/11/00	<pre>Analysis Date: 04/12/0</pre>	
Prep Batch # 4225516	Analysis Time: 01:48	

Dilution Factor: 1

Analyst ID.....: 015590

Instrument ID..: NSR

Method..... 8W846 82003

		REPORTES		
PARAMETER	RESULT	DIMIT	<u>DMITS</u>	MOL
Chloromethame	ND	2.2	ng/L	6.30
Chloroethane	NO.	2.3	ug/L	0.35
Brownethane	רא	2.0	ug/1.	1.6
1,1 Dichloroethese	NO	1.0	ug/1.	9.30
Rethylene chlomide	NO	1.0	04/5	0.30
trans-1.2 Dichloroethene	NO	1.0	ug/2	5.33
1.1-Didmiorechang	ND	1.0	ug/14	0.20
Chicaciorm	NO	1.0	0g/5	2.23
1, 1, 1-Trick! ordethane	200	1.0	ug/L	0.20
Carbon totrachloride	ND	1.0	ug/L	0.30
Renzene	SID	1.0	ng/L	0.30
Tricklordethena	MD	1.0	ug/L	0.30
1,2-Dichloropropage	ND	1.0	uq/L	0.30
Bromodichlocomethana	NL	1.6	ug/T	0.30
018-1,3-Dichloropropege	NC	110	ug/L	0.30
Toluene	NT:	1.0	ug/L	0.30
1,1,2 Truchloroethand	ND	1.6	ug/),	0.30
1.2-Dichloroethanc	NJI	2.0	ug/L	0.40
Tetrachloronthene	כא	1.0	ug/1.	0.30
Gibromachloromethena	NO	1.0	0g/1	0.40
Chicachenzena	NO	1.0	uq/1	0.30
Ethylbonsene	MD	1,0	ug/:	0.20
trans 1,3-Dichlorapropone	ND	1.0	ug/1	1.50
Xylenes (total)	ND	1.0	Lig/1	0.50
Vinyl chloride	ND	1.0	5g/L	0.30
Srometorm	ND	1.0	g, ∵g/L	0.30
1,1,2,2-Tetrachiorsothage	ND	1.:	un/L	0.40
Accolein	иn	50	ug/6	12
Acrylonianile	ND	20	ug/t	10
2 Chloroethyl vinyl erher	ип	5.6	ug/L	2.0
Dichlorod: Sluopomethane	מא	2.0	ug/16	0.40
Trishland (Gorge-Elland	NO	2.0	0g/b	0.40
	- <del></del>	2.0		6.56
	PERCENT	REHOVERY		
SURROGATE	RECOVERY	TATMICS		
Bramofluorchenzene	99	(75 - 13	<u>σ;</u>	
1,2 DichloroetLane-34	105	(65 - 13	-	
Toluene dă	48	(60 13		

#### 384 OUTTALL

## GC/MS Volatiles

Lot-Sample #: E4H110933-020	Work Order #: GMXS41AA	Motrix: WATER
MASS SPECIEMETER/DATA SYSTEM	(MSDS) TENTATIVELY IDEMTTFEED:	TOMPOURDS
PARAMETER	C* 2 * 55000 -	RETENTION THME ENTRS TRY.
NOTE (G) :		_

<sup>4)</sup> Result was margined against negrets into and standard asstancing a response factor of 1.

# QC DATA ASSOCIATION SUMMARY

E4H110333

Sample Proparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYT I CAL RET <u>HOD</u>	LEACH MAC <u>CE</u> #	PREP BATCK #	No RUNA
051	WATER	SM646 8250B		4009496	4225302
502	ABTAK	SW846 62603		4225496	4225307
003	WATER	GMB46 92⊾09		4025496	4225322
3/14	WATER	5W846 82603		4225496	4225302
005	WATER	ж <b>м</b> 846 <b>82</b> 66 <b>н</b>		4225496	4225302
006 .	WATER	99845 6260B		4225498	§229502
007	WATER	5W846 02500		4225496	4225302
002	WATER	SW946 E2608		1225496	42353DW
039	<b>МАТЕ</b> И	57948 d260D		4%%549G	4925202
gi:	WATER	RWR46 E260R		022549E	4225307
511	WATER	SM946 87edB		4225456	4225302
012	PATER	3W846 8260B		4224499	4025302
513	ABTAK	SN246 87503		4325436	422530%
014	WATER	SW846 92639		4229496	4024302
015	WATER	KW845 8360%		4725490	4225302
916	WATER	£₩946 9290₩		4225496	4225302
017	WATER	gw846 8260B		4226739	4225141
ÇTB	KATER	ямичь арбов		4225515	4225313
010	WATER	SW646 RRACE		4228915	4239313
::20	NATER	SW845 92607		4225515	4225313

#### METHOD BLANK REPORT

#### GC/MS Volatilea

Cifent Tot #...: E491120333

MB Lot-Sample #: E49120000-496

Amalysis Date..: 08/11/04

Dilution Factor: 1

Work Order #.... GM2QR1AA

Prep Date..... 08/11/04 Prep Batch #...: 4225496

Amalyst ID..... 015590

Matrix..... WATER

Analysic Time..; 22-27 Tratrument ID. : K90

		REPORTING	G	
PARAMETER	RRSULT	LIMIT	CNTTS	METHOD
Shilomomethage	ИD	2.0	ng/5	SM846 3250B
Clubocoethane	ПП	2.0	0 <b>9</b> /5	SK846 A25CR
Bromomethane	הא	2 0	ug/L	8K646 825CB
1,1-Dichloroethnon	MO	1.0	1:9/12	5K646 8289D
Methylana obloride	MD	1.0	ug/S	SW646 8260B
Chans-1,2-Ducklordethens	ИÜ	1 0	$\log/\mathbb{Z}$	8K546 825CB
1,1-Dichloroethann	ND	1.0	8g/5	AWF46 8RS0D
Chloroform	ИÜ	1.0	mq/2	SW640 0260H
1.1,1-Trachlorcethane	NTI	1.0	ug/D	SK\$46 8250A
Carbon tetrachloride	NTD	1.0	11g/%	5W646 8250D
Вельеле Вельеле	ии	1.D	ug/5	SW646 8250B
Trichloscethene	ии	1.0	$\log/2$	SK646 82508
1,2-Dichlaropropane	KTD	1.0	ug/L	SW646 9250B
Browodichloromothane	Νυ	1.0	ag/:.	SM646 0260B
cis-1,3-Cichloropropene	ип	1.6	ug/2	£K946 ⊎250⊎
Toluens	ND	1.0	ng/ta	SK646 8250B
1,1,2 Trichloresthane	ND	1.0	ng/i.	SW046 0390B
1,2 Dichloroethane	ил	1.0	იფ/ნ	SK646 a250H
Tetrachlarocthese	КTT	1.0	ug/S	56646 8250D
Bibromachloromothane	ИU	1.0	พร/น	SM946 92609
Chlorobenzene	ND	1.5	ug/L	SM946 92603
Bihylbenzene	תא	1.0	ug/h	SW646 8260B
hrans 1,3 Dichloropropene	ИD	1.0	ug/L	SM546 82609
Vinyl Skloride	ND	1.0	ag/L	SN946 8260B
Xylenes (total)	NID	1.0	ug/L	SM646 8260D
Srempform.	MD	1.0	vg/Tr	SM046 02609
1,1,2,2 Terrachlosocchase	ND	1.0	$a_0/L$	8 <b>0</b> 946 92608
Acrolein	ND	20	ug/L	SN646 8260B
Acrylomitrile	MD	20	ag/fi	SW046 07609
2-Chloroothy) viny1 other	ND CK	5.3	ag/L	SW846 8260B
Dichloroditiuosomethane	NO	3.0	ug/L	8N846 8250B
Trichlorafluoramethane	ND	2.3	ug/Ti	SN246 6360%
	PERCENT	RECOVERY		
SURROGA1E	RECOVERY	<u>Lir</u> its		
Brompfluorphanzand	162	{75 139	a)	
1,2:Bichlorocthame d4	100	<€5 135	5)	
Telunno d8	103	(80 - 13)	0)	

#### MOTE (S):

## Method Blank Report.

#### .GC/MS Volatiles

Lat-Sample #: B48120005-496 S Work	Order #. OMZQRIAA	Matrix: Warms
NASS SPRCTROMBTES/DATA SYSTEM (MSDS	C TENTATIVELY IDENTIFIED	COMPOUNDS
PARAMETER  Bis (Chloromethy): Ether	CAS #	RETENTION TIME TO THE TOTAL TO
NOTE (S): M: Routh and monoured against retained inharred standard assuming a resp	onse factor of 1	·

#### KKTHOD BLANK REPORT

#### GC/MS Volatiles

Client Lot #:	E4H11D333	Work Order	#: GM2TV1AA	Matrix,; WATER
MB Lot-Sample #:	R4H120500-515			

		REPORTE		
ASAMETER	RESULT.	SEMET	UNITS	MEYNLOD
filoromethane	HIJ	2.0	ug/0	8K646 825C
Milomosthane	ИTI	2.0	ug/2	5W646 92S0I
romomethace	ИID	2.0	09/5	SM846 8290
,1-Dichiologthene	ND	1.0	ug/S	8K946 8250
ethylene chlorida	ND	1.0	ng/%	5W846 93501
rans 1,2 Ouchloroetheus	ИŪ	1.0	ug/5	SM846 4250
/1 Dichloroethane	ND	1 0	$a_{ij}/L$	86646 8259
hideofozo	ALD.	2.0	ug/fi	SM646 9240
,1,1-Trichloma⊄chan⊖	MI)	1.0	ug/T.	SW946 9260
athon tetrackionide	ип	1.5	ug/6	анечь язал
enzene	NTI	1.0	ug/L	SN846 87603
richlorsethens	ND	1.0	νg/6	SMB46 83403
,2-Dichloropropane	ND	1.5	ag/L	SM846 8240:
/omodichlosomethese	ND	1.0	11g/h	SW646 82603
is-1,4-Dichloropropene	ND	1.0	ng/Ti	S#646 9260
olivene	ND	1.5	ag/L	SM646 82602
,1.2-Trichlorpethane	NO.	1.0	ug/L	SW646 82603
,2-Dichlorsethane	350	1.3	$\log/I_0$	SN846 82603
etrachloroothene	ND	1.3	ug/L	SW946 82403
ibromochloromethanu	ND	1.7	ug/L	SN845 8250
hlorobenzene	ND	1.3	ug/b	รพศ45 3260:
thylbenzene	ЯD	1.3	ug/L	SW849 62603
twos-1.3-Dichloropropede	ND	2.0	ug/L	SN845 82603
imyl chloride	ND	1.0	ug/n	SN845 62603
ylenes (total)	ЯD	1.0	99/L	SW346 8260:
romojerm	ND	1.0	19/L	SW845 B2603
.1,2,2-Tetrachlorcethann	ND	1.0	V9/1	SW846 8269
arolein	NO	25	ադ/ե	SW845 63600
anyloni;nije	ND	20	ug/L	SW845 6260L
-Chloroethyl vinyl ethor	ND	5.0	ug/1.	SW845 B260
ichloradifluoramathane	ND	2.0	ug/L	SW846 82608
richlorofluordmethame	NIC	2.0	ug/L	SW846 E265F
	PERCENT	RECOVERS	í	
URROGATE	<u>R</u> BCOVERY	HIMITS.		
romofluorobengeme	97	(75 - 1)	36)	
,3-Dichloroechane-d4	97	(65 - 10	35)	
oluene-dB	100	(80 - 1)	10)	

Calculations are performed before rounding to assed mand-off ecross in colcular desires.

#### Method Blank Report

#### GC/MS Volatiles

Lot-Sample #:	R48120000-715 B	Nork Order #: GYZTKIAA	Matrix: MATER

MASS SPRCTWOMBTER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPTUNES

		RSTIMATED	RETENTION
HARAMETER Bis (Culoromathyl) Eucher	<u>088 #</u> - 592 69 1	ND M	TIME UNITS ug/L

NOTE (S) :

th Rough was measured against modest latertal standard assuming a response factor of 1.

#### METHOD BLANK REPORT

#### GC/MS Volabiles

Client Lot #... : F49105933

Nork Order M...: GM3GR1AA

Matrix..... HATER

MR Lat-Sample #: 249130000-239

Prep Date ..... 08/12/04

Analysis Time..: 19:33

Analysis Date..: 08/12/04

Prep Batch #...: 4326335

Instrument ID..: MSR

Dilution Pactor: 1

Analyst ID....: 018590

		REPORTING	<del>,</del>	
PARAMETER	RESULT	1.1817	UNITS	METHOD
Chloromethans	ND	3.1	ug/L	SW016 8260b
Chlorgethane	MD	2.0	ug/Ti	SN845 82603
Bromomethable	ND	2.0	աց/ե	SM646 8260B
1.,1-Dichloreethese	ND	1.0	ug/L	SW846 8360B
Methylene chicrida	ир	1 0	vg/r.	8K946 92S09
trans-1,2-Dichlorgethene	NTI	1.0	ug/2	<i>⊊</i> 6646 8250H
1,1-Dichleroethane	ND	1.D	ug/S	34646 <b>82</b> 50B
Chlocolorm	NU	1.0	0g/5	SW8%G 8260B
1,1,1-Trichloscethane	NE	1.0	04/0	5W846 E2609
Carbon toprachloride	NC	1.0	ug/L	SW046 07608
Benzeno	ND	1.0	09/16	SW846 6260B
Trichlosoethene	NO	1.0	ug/To	SW845 6260B
1,2 Dichloropropane	SID	5.6	ug/L	SW946 BZ605
Bromodichloromothane	NO	1.3	ಚಿಕ್ರ/ಟ	SW845 8260B
dis-1,3-Dichloropropene	NO	1.0	aq/L	SW646 8260B
Toluene	סוג	1.0	o <del>g</del> /L	SW046 8260B
1,1,2-TruckBornethane	ИD	1.5	ug/f.	∺M646 3260B
1,2-Bichiosoethane	ΝП	1.0	ug/3/	AW846 9260B
Totrachloroethese	MD	1.0	ug/L	3W046 325CB
Dibromochloremethane	ND:	1.0	ug/5	SW04G 925GB
Chlarobenzene	KI7	1.0	9975	3W846 8260H
Ethylbenzene	ND	1.0	ug/5	SW046 FRADR
Urans-1,3-Dichleropropens	ND .	1.0	09/1/	SW846 E26C3
Vinyl chloride	ND.	1.0	ag/L	SW846 H26D2
Eylenes (total)	NO	1.0	Cg/L	SW046 626PR
Bromotorm	ND CN	1.0	ug/L	SW949 6260R
1,1,2,2-Tetrachlomoothazo	CN	1.0	ug/J	SW845 8260D
Acrolein	מא	26	$\pm i g/\mathbf{L}$	SM846 8%60B
Acrylonitoile	NO	20	ಚಿತ್ರ/೬	SW946 8260R
3 Calorophbyl vinyl ether	ND	5 5	ug/f.	SW646 8260D
Dichloroditiuchomethage	ND	2.3	ug/L	<b>908</b> 46 8263 <b>9</b>
Trisblamofluoremethano	MD	7-0	ug/L	SM040 0267B
	PERCENT	RECOVERY		
SURROGATE	RECOVERY	TTWILE.		
Bromofluorobenzene	37	(75 13)	0)	
1,2-Dichloroothape 64	36	(65 - 13)	5)	
Volumne-d8	98	(90 - 13)	0)	

MEYER(S):

#### LANDRATORY CONTROL SAMPLE EVALUATION REPORT

#### GC/MS Volatiles

Client Lot #: B40110331 LCS Lot-Sample#: E40120100-496 Prep Date: D4/11/04 Prep Batch #: 4225496 Dilution Factor: 1 Analyst D: 010590	Analymia Da	#: GM2QN1AC te: 06/11/04 me: 21:05 ID: MSQ	Matrix:	WATER
PARAKETER  1.1-Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	PERCENT RECOVERY 112 100 95 105	RECOVERY LIMITS (65 - 135) (75 - 125) (75 - 135) (75 - 125) (75 - 125)	METHOD SWH46 B260B SW846 B260B SW846 B260B SW846 B260B	
SURROGATE Bronofluorobenzene 1,2 Dichloroothene-64		PERCENT RECOVERY 197 93	RECOVERY (1007°S (75 - 130) (65 - 135)	

107

(80 - 130)

MOTE(S):

Coluene-d6

Calculations are performed before rounding to avoid round-off errors in calculated desults.

Bale prior desores contro parameters

#### LAHORATORY CONTROL SAMPLE DATA REPORT

#### GC/MS Votatiles

Client Lot #...: E4H110133 Work Order #...: GM2QR1AC Matrix...... WATER

LCS Lot-Sample#: E4H12G000-906

 Prep Date....:
 08/11/04
 Analysis Date..:
 08/11/04

 Prep Batch \$...:
 4225456
 Analysis Time..:
 21:05

 Dilution Pactor:
 1
 Instrument II..:
 MSQ

Analyst TD..... 015590

	SPIKE	MEASURED		PERCENT	
PARAMETER	AMOUNT	AMOUNT	CNITS	$B\overline{DCOARXA}$	Мистеор
1,1-Dichlorocthene	10.0	11.2	og/t.	112	SW046 8260B
Benzene	16.0	10.0	ug/J-	וום ר	S <b>W816</b> 9260B
Trichtornethene	10.0	9.54	սց/ൂ.	95	6 <b>8846</b> 82608
Toluene	10.0	10.5	119/6	105	SW846 8260R
Chlorobenzene	30.0	10.5	սց/Ն	105	SW846 8260B

SURROUATS	PERCENT RECOVERY	RECOVERY LIMITS
Brotottuorobeazeas	197	(75 - 130)
±,2-Dichloroethand d4	93	(65 135)
Taluane-d3	107	(60 130)

NOTE(S):

Calculations are performed pelore nomining to world mentions among in calculated results.

Base point denotes control serameters

#### LABORATORY CONTROL SAMPLE EVALUATION EXPORT

#### GC/MS Volatiles

Client Lot #: 64H11DA33	Work Order	#: SMRTWIAG	Matrix WAIRR
LCS Lot Sample#: E4H120000 515	;		
Prep Date: 08/11/04	Analysia Da	itell: 08/11/04	
Prep Batch #11.2 4225515	Analysis Ti	me 17:20	
Dilution Factor: 1	Tretryment	ID: MSR	
Analyst ID: 015500			
	IERCENT	RECOVERY	
TARAMETER	RECOVERY	LIMITS	METHOD
1,1-Dichloroethene	90	(65 - 135)	SW846 8260B
Benzene	#B	(75 125)	SW846 82608
Trichloroethene	87	(75 - 135)	SW846 82608
Tolsene	86	(75 - 125)	80046 8260B
Chloropenzene	#7	(75 - 125)	SW846 8260B
		PERCENT	HECOVERY
SURROGATE		RECOVERY	DIMETS
Bromofluorobenzeze		200	(28 - 150)

92

102

(65 135)

(80 - 130)

NOTE (5):

Tolume-dă

Calculations are performed before rotatiling to availational stiff colors in calculated needs.

Bold print canada control parameters

1,2-Dichloroethane-d4

### LABORATORY CONTROL SAMPLE DATA REPORT

#### GC/MS Volatiles

Client Lot #; EdE113333 LCS Lot-Sample#: SCH120000-515 Prep Date: 05/11/04 Prep Batch #: 4225515 Dilution Factor: 1 Analyst ID: 015590	Analysis Da	#: GM2TW1AC slee: 08/12/04 imc: 17:20 ID: M9K		-ix	.: WATER
PARAMETER  1,1-Dickloronthane Benzenc Trichloroethene Toluene Chlorobenzenc	SPIKS AMOUNT 10:0 10:0 10:0 10:0	MEASURED: AMOUNT 9:05 8:76 8:70 8:65	UMITS ug/L ug/L ug/L ug/L	PRECENT RECOVERY 90 86 87 86 87	METHOD SM846 82600 SM846 82600 SM846 82600 SM846 82600 SM846 82600
SURROGATE  Bronoflucrohenzene 1,2-Dichloroethane-de Tolucre-de		PERCENT RECOVERY 130 92 103	RECOVERY LIMITS (75 - 126) (65 - 135) (80 - 130)		

NDTK(R) :

Calculations are performed before rounding to avoid name to ill eners in calculated family.

Bold with Obligation rowth in parameters

## LABORATORY CONTROL SAMPLE BVALUATION REPORT

### GC/MS Volatiles

Client Not # EdR115333 LCS Lot-Sample#: EdR135000-23	Work Order	#: GM30E1AC	Matrixs WATER
Prep Date 03/12/04 Prep Batch #: 422a235 Dilution Factor: 1 Analyst 1D: 015550	Analysis D	ato.,: 06/12/04 ime: 15:51 ZD: MSR	
PARAMETER  1.1 Dichloroethene Benzene Trichloroethene Toluene Chlorobenzene	95RCENT <u>RBCOVERY</u> 104 96 95 95 94	REMOVERY LIMITS (65 - 135) (75 - 125) (75 - 125) (75 - 125) (75 - 125)	MECHOU SW846 B2608 SW846 82608 FW846 8260B SW846 8260B SW846 8260B
SIRROGATE  5romoflworobenzene  1,2-Dichiscopulane d4  Tolwone-d8		PERCENT RECOVERY 101 99 102	RECOVERY <u>LIMITS</u> (75 - 120) (85 - 135) (80 - 130)
NOTE (s):			
Calculations are partiamned before monding to avoid muna-reli	errors in carbulated results		<del></del>
Bold print (dening (2007)) parameters		-	

Bold print temper covers parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #: E43110333 LCS Lot-Sample#: 248120000-209 Prep Date: 98/17/04 Prep Batch #: 4776239 Dilution Factor: 1 Analyst 10: 015590				ix	: WATER	
49-3 L	SPIKY AMOUNT 10.0 10.0 10.0 10.0 10.0	MMASURED <u>ANOUNT</u> 10.4 9.59 9.54 9.50 9.42			KETHOD	_
SUREDGATS  Fromofluorobenzene  1,2-Bichloroethene d4  Toluene-d8  MOTE(S):		PERCENT BE <u>COVERY</u> 101 95 103	RECOVERY <u>HIMITS</u> (75 - 130) (65 - 135) (80 - 130)			

Calculations are performed before counting to dyord round-off errors in calculated reputits

Bold print denotes strated smarreters

#### MATRIX SPIKE SAMPLE EVALUATION REPORT

#### GC/MS Volatiles

Client Lot #: EAR11032 MS Lot-Sample #: E4R11033 Date Sampled: 08/09/04 Prep Date: 38/11/00 Prep Batch #: 4222496 Dilution Pactor: 1	3-006 21:00 Date & Analys Analys	Order #: GMX6L1A	AD MSD 04 14:50 <b>MS Run #</b> 40 04	275362
	PERCENT	RECOVERY	ขาร	
PARAMETER	RECOVERY	LIMITE RED		
1,1 Dichloroethene	149 a	(65 - 135)	SW846 #250B	_
	150 a	(65 - 135) D.66		
Berizene	12G H	(75 125)	SW846 8260D	
	126 a	(75 - 125) 0.23		
Trichloroethene	118	[75 - 135]	SM846 8260R	
	119	[75 135) 0.59	(0-25) SWB46 8260B	
Toluene	128 a	175 - 125)	SW845 0260H	
	12H a	(75 - 125) = 0.46	(0-25) SW846 8260H	
Chlorobenzene	126 a	(75 · 125)	SW846 8260B	
	126 a	<b>(75 - 125) 0.0</b> 7	(0.25) SW046 8260B	
		PERCENT	RRCOVERY	
SURROCATE		RECOVERY	LIMITS	
Branchluoxobenzene		111	(7 <mark>5 - 136)</mark>	
		109	(95 - 140)	
1,2-Birhlorsethane-d4		104	(65 135)	
		99	(65 - 135)	
Toluene-d6		104	(80 - 134)	
		104	(au - 1.au)	
NOTE (S);				

Calculations are senformed deficie rounding to dyald round off data is in calculated inselfic.

Bold print denotes control parameters

a. Salked analyte recovery is obtained whited rearred temps.

### MATRIX SPIKE SAMPLE DATA REPORT

# CC/MS Volatiles

Client Eot # 64H11023 MS Lot-Sample #: E4H11024	3-006			GMXGL1AD	-MSD		NAC/89
Date Sampled: 08/09/04	21:00	Date Rece	eived:	38/11/64	14:59 MS	Rum #	4225303
Prep Date 06/11/04		Analysis	Date	08/12/04			
Prep Batch #: 4225496		Ana)yeis					
Dilution Factor: )				015990	Ins	elijara <b>Hone</b> s	nt 10 MSQ
	SAMPLE	SPIKE	MKASRD		PERCNI	•	
FARAMETER	AMOUNT	ANT	AMOUNT	UNITS	<u>RECVRY</u>	RPD	MKT9GD
],1-Dichloraethene	ND	10.0	14.9	ug/L	149 н		SWR46 8260H
.,	ND	10.0	15.0	ug/L	150 a	0.66	S#946 8260B
Henzene	ND	10.0	12.6	ug/li	126 a		SW846 8260B
	ND	10.0	12.6	ug/I	126 a	0.23	SW046 B260R
Trichiorcethone	ND	10.0	31.8	ug/L	118		SW846 #260B
	NII	10.0	11.0	ug/1.	116	0.59	5 <b>98</b> 46 B260B
Toluene	ND	30.0	12.8	uq/L	128 a		SW846 8260B
, •	MD	10.0	12.#	ug/L	120 a	0.46	SW#46 8260B
Chlorobenzenc	NI)	10.0	12.6	υg/t.	126 a		SW846 8260B
	טא	10.0	12.6	ոց/ւ.	126 a	0.07	SMB46 8260B
		P3	касами		RECOVERY		
STRREGATE		80	≥COVERY		1.TM11.S		
Bromof (porshenzene		=	11		(75 - 130	1)	
			00		-(75 - 130)	))	
1,2-Dichlordethane-d4		1	64		(65 139	1)	
		9.	9		(65 - 135	51	
Tollene-d6		1	04		19G - 123	۵ı	
			01		(80 - 14)		
NOTELS) :							

Calculations are performed before rounding to accord round-off curves in calculated results.

Rold print denotes control parameters

a. Spiked engigle recovery is outside stated care of littles.

#### MATRIX SPIKK SAMPLE EVALUATION REPORT

#### GC/MS Volatiles

Client Rot #: 54811033 MS Lot-Sample #: 54811029		rder #: GXXR: GMXR:	SIAX MS <b>Mad</b> BIAG-MSD	riz	WATER
Date Sampled: 38/10/94	12:00 Date R	eccived: 08/11	1/04 11:45 <b>H</b> S	Run #	4225313
Prep Date: 06/11/04	Analys	is Date: 09/12	2/54		
Prep Batch #: 4225515	Analyo	is Time: 02.63	9		
Dilution Factor: 50	Analya	t 7D 01599	90 <b>in</b> :	strument 10	MSR
	PERCENT	RECOVERY	RPD		
PARAMETER	RECOVERY	<u>Limits</u> Ri	PD LIMITS	METROD	
1,1 Dichlorocthene	92	(65 135)		FW0846 8260B	
	85	165 - 135) 8	- <b>0</b> (0-25)	SW846 826QN	
Benzene	0.0 MSB	(75 - 125)		SW846 8260B	
	O.O MSB	(75 125) O	.o (a x5)	SW846 8260B	
Trichloroethene	87	(75 - 135)		SN846 8260B	
	79	(75 135) 9	.7 (0-25)	SW846 8260B	
Toluene	87	(75 - 125)		SW846 8260R	
	91	[75 - 125] = 6	.3 (0-25)	SW846 8260B	
Chlorobenzene	#6	(75 - 125)		SW846 8260B	
	80	175 125) 7	-0 (0.25)	SW846 82608	
		PERCENT	RECOVERY		
SUBROGATE		RECOVERY	SIMITS		
Brombiluorobensene		95	(75 - 13)	0)	
		LEG	(75 - 13)	J)	
1,2-Dichlorosthane d4		94	(65 - 13)	5)	
		93	(65 - 13)	5)	
Toluene-dä		0.00	(80 13)	n)	
		101	(80 - 13)	וו	
encourage ( co)					

Calculations are performed before concerning to ascent round-off errors in calculated results

Beld prim cenoos control parameters

MSE The convery and RPD were not executated because the sample amount was greater than four times the up to amount

### MATRIX SPIKE SAMPLE DATA REPORT

#### REMOVE Volatiles

Client Lot #: B4H11033		bek Ord		GMXR31AX GMXR31AG -	-	C7X		A WATER
MS Lou-Sample #: B4U11025 Date Sampled: 08/10/00	9-005					261T1 #		- 4225413
		ate Kec	Bate:	40/15/54	11.45 44.	тист т		
Prep Date: 06/11/04			: Dime					
Prep Batch #: 4225515		_			Tnel	t mane	nt ID	- MSR
Dilution Factor: 90	٩	בפיץ ו החט	ID	017570	11/0	,	10.	
	SAMPLE	SHIKE	MEAGRE		FERCHT			
PARAMSTER	AMOUNT		AMCUNT.	UNITS	RECVRY	RPD	METHOD	,
1,1 Dichloroethene	ND	500	461	աց/Ն	92		S#646	RZEOR
-,-	NID .	500	426	աց/և	85	8.0	S <b>H64</b> 6	826D <b>K</b>
Henzene	3700	500		og/h	0.0		SW846	9260B
	Quá	difier	a: MSA					
	3700	500		ug/L	0.0	0.0	SWB46	8260H
	Qua	l:fier:	s: MGD					
Trichloraethene	ND	500	434	ug/t.	87		SWR46	8260B
	ND	500	394	ug/L	79	9.7	S₩846	B260R
Toluene	38	500	472	ng/1.	97		5WB 46	8260B
	38	500	443	uq/L	вı	6.3	SN846	62608
Chlorobenzene	MD	500	430	աց/ե	86		SW846	826 <b>0B</b>
	ND	500	401	υg/t.	80	7.0	BW846	8260B
			PERCENT'		RECOVERY			
SURROGATE			RECOVERY		LIMITS			
Bronwfluozobenzene	-		99		(75 - 130	0		
BIOMBI I BOX COPTIZATION			100		(75 130	-		
1,2-Dichloraethane-da			94		(65 - 135	-		
1,2-5100100.0000000			93		(65 - 135			
Toluene-d8			101		(80 - 130	-		
DTAGUE-DR			101		(60 - 130			
					,,,,	-		

MOTR (S):
Calculations are performed before countring to work round-off errors in reclassive countries.

Both print control control garanteless.

Misses the recovery and RPD were not extend the second time another in stead from the first time and RMM.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

#### GC/MS Volatiles

Date Sample 1: E48120396 002  Date Sampled: 08/10/04 10:40 Date  Prop Hate: 08/13/04 Analy  Prop Batch 1: 4226339 Analy	Order # GM2VD1 (902VD1 Received.: 08/12/ mis Date.: 06/13/ mis Time 03:57 mst 115; 015590	1AR-MSD /04 14:30 <b>MS Run F</b> 9226141 /04	ı
PARAMETER	RECOVERY <u>LIMITS                                   </u>	SW846 6260B	
96 Renzene 95 92	(65 - 135) 4.3 (75 - 125) (75 - 126) 3.4 (75 - 335)	SW846 B260B	
Trichlarosthenc 93 89 Toluene 97 94	(75 - 135) 4- (75 - 125) (75 - 125) 3.	SWB46 82609 2 (0-25) SWB46 82603	
Chlorobenzene 95 91	(75 - 125) (75 - 125) 4.	•	
SITREOGA <u>CE</u> Bromoflusiobonzene	ครหณ≥ทT <u>คสกางผ</u> หชั 99 99	RECOVERY <u>NIMITS</u> (75 - 130) (75 - 130)	
t,u-Bichlorosthame-d4	67 87	(65 - 135) (65 - 135)	
Tolueno-de	103 103	(80 - 130) (80 - 130)	

Calculations are performed before rounding in assist today off source in calculated results.

Bold print details cortrol provincies

## MATRIX SPIKE SAMPLE DATA REPORT

#### GC/MS Volatiles

Client Lot #: 84H11033		Mork Orde	r #:	GM2VD1AC-		xi:	WATER
MS Lot-Sample N: R4H120290 Date Sampled: 06/10/04 Prep Date: 00/13/04 Prep Batch N: 422G239 Dilution Factor: 1	10:40	Date Rece Analysis Analysis Analyst J	Date Time	GB/12/04 GB/13/04 GB:57	14:30 MS		nt TD.,: MSR
	SAMPUE	SPIKE	MEASRD		PERCNT		
PARAMETER	AMOUNT		AMOUNT	UNITS	RECVEY	RPD	MET <u>900</u>
1,1-Dichlorosthene	ND	10.0	10.0	ug/L	100		HW846 B260B
t, 1-Dichio M. cheme	מוא	10.0	9.60	ug/L	96	4.3	SW846 H2609
Benzene	ND	10.0	9.51	ug/L	95		SM846 8260B
Bellatile	ND	10.0	9.15	սց/Ն	92	3.8	SWR46 8260B
Trichloroetheno	ND	10.0	9.29	ug/1.	93		SW046 8260B
Treatdeeteko	ND	10.0	8.92	og/L	89	4.1	SM846 8260R
Taluene	NÚ:	10.0	9.66	119/1	97		5 <b>1</b> 846 8260D
Milbelle	ND	10.0	9.36	սց/ե	94	3.2	SWB46 8260B
Chlorobenzene	ND	10.0	9.50	աց/ե	95		SW846 8260R
CHIOTANAZERE	ND	10.0	9.06	ոգ/ր	91	4.7	SMB46 8360B
•		P	BRCKNT		RECOVERY		
SURROGATE		· A	BOOVERY		LIMTES	_	
Bromafluorobonzene		9	y		(75 - 150)	ė.	
D. Armes and C. W. L.		9	ş.		-(78 - 130	)	
1,2-Dichloreethans-d4		*	y		(65 139	)	
1 / 2 - 2 / 2117 /2 - 2 - 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2		9	7		(45 - 135	il	
Tolucus-d6		1	03		130 - 130	):	
2 O T (4 ) (1 m) - mp		1	G2		180 130	):	
NEVEK (S) :							

Celestiscom are performed before rounding to avoid round off errors in chaptaled rotalis.

Bota print denotes control parallettes



An EDISON INTERNATIONAL Company

## ANALYTICAL REPORT

Laboratory Name:

Address.

Power Production Chemical

7301 Fenwick Lane, 2nd Floor

Westminster, CA 92683-5202

Telephone.

(714) 895 0525

Facsimile:

(714) 895 0515

Laboratory Certification (ELAP) No.:

1949

Expires 11/30/05

Laboratory Director's Name.

Shawn S. Simmons

Laboratory Director's Signature:

Shawn Simmons 9/17/04

Duta

CLIENT:

NRG El Segundo Operations Inc.

ADDRESS:

301 Vista Del Mar

El Segundo, CA 90245

DATE(S) SAMPLED.

8/9/04 and 8/10/04

DATE(S) RECEIVED:

08/10/04

Chain of Custody(ies) Received

Yes



## An EDISON INTERNATIONAL Company

# ANALYTICAL REPORT

Cover Page 2

	Cover rage 2	
	NRG P.O. E107095	
Inorganic Apalyses	# of Samples	# of Samples Subcontracted
Residual Chlorine, in field	36	0
pEC, in field	26	ŏ
Temperature, in field	36	c
Oil and Grease	36	0
TSS	4	0
Nitrite-Nitrate-N	4	Ď
Color	4	9
Sulfate	4	, , , , , , , , , , , , , , , , , , ,
Salfide	4	0
Sollite	4	0
Magnesium	4	0
BOD	4	•
CQD	4	4
70C	4	4 .
Astanonia-N	4	<u>.</u> i
Bromide	4	4
Total/Fecal Californi	36	4
Flooride	4	36
Nitrogen, Total Organic	4	4
Plasspherus, Total	4	4
Radioactivity, Total Alpha	4	4
Radioactivity, Total Beta	1	4
Radioactivity, Total Radiom	4	4
Radioactivity, Radioin 226	4	4
Sin factants	4	4 ;
Trace Metals in Seawater	4	4
Tyanide	4 36	4
Phonols	36	36
Organic Analyses		36
VOCs	# of Samples	# of Saruptes Subcontracted
SVOCs	20 4	20
Dioxin	4	4
Posticides/PCBs	4	4
	4	4 i
sample Condition:	Acceptable	İ

	Da Ta wree					Total
I New York and the second	DATE TIME	DATE			R1.	Chlorine
UNIISTAND 2	COLLECTED	ANALYZED	PARAMETER	метнов	(mg/ll.)	(mg/L)
Units 1&2 Intake	8/9/04 15:55	08/09/04	Chlorine Residual	SM 4500-CLG	0,03	иN
Hnds 1 <u>&amp;2 Ou</u> dall	8/9/04 16:20	08/09/04	Chlorine Residual	SM 4500-CTG	0.03	ND
Units 1&2 Intake	8/9/04 18:15	08/09/04	Chlorine Residual	SM 4500-C1G	0.03	NÐ
Uni <u>ts 1</u> &2 Outfall	8/9/04 18:38	08/09/04	Chlorino Residual	SM 4500-C; G	0.03	SD
Duits 1&2 Intake	8/9/04/20:50	0 <u>8/0</u> 9/04	Chlusine Residual	SM 4500-CLG	0.03	- NO
Units 1&2 Quifall	8/9/04 21:00	08/09/04	Chlorine Residual	SM 4500-CLG	0,03	ND
Units_1&2 Intake	8/ <u>9/0</u> 4 23:40	08/09/04	Chlorine Residual	SM 4500-CLG	0.03	ND.
<u> Units 18/2 Optfull</u>	8/10/04 <u>0-</u> 00	08/10/04	Chlorine Residual	SM 4500-Cl G	0.03	ND.
Onits 1&2 Intake	8/10/04 2:55	08/10/04	Chlorine Respinal	SM 4500-CLG	0.03	ND
Units 1&2 Ourfail	6/10/04 3.15	08/10/04	Chlorine Residua]	SM 4500-CLG	0.03	ND.
U <u>nit</u> s 1&2 Intake	8/10/04 5:55	08/10/04	Chlonus Residual	SM 4500-CLG	0.113	ND
Lights 1&2 Outfall	8/10/04 6:15	08/10/04	Chlorine Residual	SM 4500-c1 G	0.03	ND
Units 1&2 Jalake	8/10/04/9:15	08/10/04	Cittorne Residuat	SM 4500-C1 G	0.03	ND
Units L&2 Outfall	8/20/04 9:55	06/10/04	Chlorine Residual	SM 4500-C1 G	0.03	ND
Units 1&7 Intuke	8/10/04 11:55	_08/10/04	Chloring Residual	SM 4500-C1G	0.03	- ND
Units 1&2 Outrall	8/10/04 12:15	08/10/04	Cldurine Residual	SM 4500-C1 G	0.03	ND
Units J&2 Intake	8/10/04 14:55	08/10/04	Chlorine Residual	SM 4500-CLG	0.03	ND T
Units 1&2 Outfall	8/ <u>10</u> /04 <b>15</b> .15	08/10/04	Chlorine Residual	SM_4500-CLG	0.03	ND
	_  _ i	_	l <u></u>	_ ]	_	_

	DATE TIME	DATE	<u>'</u>		MD).	RESULA
UNITS I AND 2	COLLECTED	ANALYZED	PARAMETER	метнов	(plf unit)	iρH at i°C)
Units 1&2 Intake	8/9/114 15:55	08/09/04	Bleatrometric pH	EPA 150.1	0.00	7.87 at 21.1°C
Units 1462 Outfall	S/9/04 16:20	_08/09/04	Electrometric pH	EPA 150.1	0.01	8.04 at 20.4°C
U <u>nit</u> s 1&2 Intake	8/9/04 18:15	08/09/04	Electromietric p11	EPA 150.1	0.70	8.08 at 20 0°C
Units 1&2 Outfall	8/9/04 18:38	08/09/04	Electronsettie pH	EPA 150.1	0.01	8.08 at 19.3°C
Units 12/2 Intake	8/9/04 20:50	08/09/04	Electrometric pH	EPA 150.1	0.01	3.12 at 18.670
Units 1&2 Ourful]	8/9/04/21:00	08/09/04	Electrometric pH	EPA 150 L	0.01	8 12 at 18.5°C
Units 1&2 Intake	8/9/04 23:40	08/09/04	Electrometric pff	BPA 150.1	0.01	8.14 at 18.6°C
Crats 1&2 Outfall	8/10/ <u>04</u> 0:00	08/10/04	Electrometric p()	EPA 150.1	0.01	8.18 at 18,7°C
Critis 1/6/2 Intake	8/10/04 2 <u>:55</u>	08/10/04	Meagrometric pH	EPA 150.1	0.01	8.13 at 17.8°C
Units 1&2 Ondfall	8/10/04 3:15	_ 08/10/04	hlustrometric pII	EPA 150, (	0.01	8.17 at 18.1°C
U <u>nii</u> s I&2 Intake	8/10/04 5:55	08/10/04	Electrometric pH	EPA 180.1	0.01	8.16 at 18,8°C
Units 1&2 Outfall	8/10/04 6:15	08/10/04	lilectrometric pH	EPA 150.1	0.03	8.18 at 18.8°C
Units 1 <u>&amp;</u> 2 totake	8/10/04 9:15	_08/10/04	lilectromatric pl1	ËPA 150.1	(i.0)	8.02 at 17.3°C
Մո <u>մဇ</u> 1&2 Օս <u>ւն</u> ա 1	8/10/04 8:55	08/10/04	Electronisting pH	EPA 150.1	0.01	8.02 at 17.3°C
Units 1&2 Intake	8/ <u>10</u> /04 11:55	08/10/04	Electrometric pH	EPA 150.1	0.01	8.06 gt 18.9°C
Omis 1&2 Out(a))	8/10/04 12:1 <u>5</u>	08/10/04	Electrometric pH	EPA 150.1	0.01	8 05 at 14 640
Crists 1&2 Intake_	8/10/04 14:55	08/10/04	Electrometric pH	FUA 150.1	0.01	7.99 at 19.016
Cotts 1&2 Optifal:	8/10/04 15:15	08/10/04	Electrometric pH	RFA <u>2</u> 50 (	0.01	8.09 at 17.9°C
_	l <u> </u>	<u> </u>	]			

NEIN 3 AND 4 Inits 3 & 4 Intake	DATE TIME COLLECTED		PARAMETER	метнов	NJ.	Tetal Chlories
inis 3&d Onfall	8/9/04 15:20 8/9/04 14:45	08/09/114	Calorine Residual	SM 4500-CLG	(mg/L) 0.03	(mg/L) ND
nits 3&4 Intake	8/9/04 17:55	08/09/04 08/09/04	Chlorine Residual	SM 4500-CLG	0.03	Nio
nits 3&4 Outfall	M9/04 17:30	08/09/04	Chlorine Residual Chlorine Residual	SM 4500-C1G SM 4500-C1G	0.03	ND.
inis 3&4 Intake nis 3&4 Outful	8/9/04/20:20	08/09/04	Chloring Residual	SM 4500-CLG	0.03	ND NO
oits 3&4 Intake	8/9/04 20:35 5/9/04 23:15	08/09/04 08/09/04	(Morine Residual	SM 4500-CLG	0.03	ND
nds 3&4 Outfall	8/9/04 23:25	. – – ,	Chlorine Residual Chlorine Residual	SM 4500-CLG SM 4500-CLG	0.03	ַ תַעַ
nits 3&4 Intake	8/10/04 2:15	08/10/04	Chlorine Residual	SM 4500-CLG	- 10.03 - 0.03	, ND NO
ujes 3&p4 totako	8/10/04 2:35 8/10/04 5:15		Chlorine Residual	SM 4500-CLG	0.03	- ND
ots 3&4 Outfall	8/10/04 5:35		Chlorine Residual Chlorine Residual	SM 4500-CLG	0,03	ND
ius 3&4 Intake	8/10/04 8:15	0K/10/04	Chloruse Residual	SM 4500 CLG SM 4500-CLG	0.03	ND
rits 3&4 Outfall ets 3&4 Intake	8/10/04/8/35 ] 8/10/04/11:15	08/10/04	Chloring Residual	SM 4500-CLG	0.03	GN GN
ils 3&4 Outfall	8/10/04 (2:35		Chionine Residual	SM 4500-CLG	0.03	ND.
its 3&4 Intake	8/10/04 14:15	1	Oldorine Residual Alorine Residual	SM 4500-CLG SM 4500-CLG	- 0.03	ND
nts 3g/4 Ontrall	8/10/04 14:35			874 4200-CLG	-0.03 -0.03	ND ND

UNITS 3 AND 4	DATE TIME, COLLECTED	DATE: ANALYZED	PARAMETER		Mbg	RESULT
nds 3&4 Onfall nits 3&4 lanake	8/9/04 15:20 8/9/04 14:45 8/9/04 17:55 8/9/04 17:30 8/9/04 20:20 8/9/04 20:35 8/9/04 23:15 8/9/04 23:25 8/10/04 2:15 8/10/04 5:15 8/10/04 5:15 8/10/04 8:15 8/10/04 11:15 8/10/04 11:15 8/10/04 14:15	08/09/04 08/09/04 08/09/04 08/09/04 08/09/04 08/09/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04 08/10/04	Electrometric pH Electrometric pH [Roctrometric pH Roctrometric pH Electrometric pH	METHOD  DPA 150.1  EPA 150.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	(gH at PC)  8.14 at 22.0°C  8.11 at 24.1°C  8.10 at 21.2°C  8.18 at 19.2°C  8.18 at 19.2°C  8.18 at 19.1°C  8.20 at 19.2°C  8.18 at 18.6°C  8.18 at 18.6°C  8.20 at 19.3°C  8.20 at 19.3°C  8.20 at 19.3°C  8.20 at 19.3°C  8.30 at 19.3°C  8.30 at 19.3°C  8.31 at 19.3°C  8.32 at 29.0°C  8.33 at 19.5°C  8.34 at 19.5°C

OR, AND GREASE	DATE TIME	DATE	ı <u>–</u>		MDL	RESULT
ENERS I AND 7	COLLECTED		PARAMETER	метною	1 :	
Units 1&2 Intake	8/9/(M 15-55	09/02/04	Oil and Grease	EPA 1664A LLE	(ng/L)	(mg/L)
Units 182 Outfall	8/9/04 16:20	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	ND.
Units 1&2 Intake	8/9/04 18.15	08/31/04	Oil and Grease	EPA 1664A LLE	1.4	- 24
Units 1&2 Outfall	9/9/04 18:38	09/01/04	Oil and Grease	· —	1.4	ND .
Units 1&2 Intake	8/9/04 20:50	08/31/04 -		EPA 1664A (.I.B	14	ND
Units 1&2 Outfail	8/9/04/21:00	I —	Oil and Grease	EPA 1664A LLE	1.4	ND
Units 1822 Intake	8/9/04 23:40	08/31/04	Oil and Grease	TPA 1664A LLE	1.4	_ מא ו
Units 1&2 Ourfall	8/10/04 0:00	09/01/04	Oil and Grease	EPA 1664A LLE	1.4	ND
Grits 1&2 Outlan		_09/01/04_	Ohl and <u>Gre</u> ase	EPA 1664A LLE	1.4	ND
- · · · · · · · · · · · · · · · · · · ·	8/10/04 2:55	09/01/04	Oil and Grease	EPA 1664A LLE	1,4	ן מא ן
Units 1&2 Ourfall	8:10:04 3:15	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	[ <u>N</u> D
Units 1&2 Intake	8/10/0 <u>4</u> 5:55	09/02/04	Oil and Grease	EPA 1664A LLE	1.4	_ ND
Units 1&2 Outfall	8/10/04 6:15	09/03/04	Oil and Grease	EPA 1664A T UE	1.4	ND
Units 1&2 Intake	8/10/04 9.15	09/03/04	Oil and Grease	664V TTE	14	ND
Units 1&2 Outfall	8/10/04 8:55	09/02/114	Oil and Grease	EPA 1664A LUB	1.4	L ND
Units 1&2 Intake	8/10/ <u>04</u> 11:55	09/03/04	Oil and Grease	EPA 1664A ULB	1.4	ND
Omts 1&2 Outfall	8/10/04 12:15	09/03/04	Oil and Greasy	EPA 1664A LLE	14	ND
Units 1&2 Intake	8/10/04 14.55	119/03/04	Oil and Grease	BPA <u>16</u> 64A LLE	1 4	. ΔÑ
Co <u>sta I</u> & 2 Outfall	8/1 <u>0/0</u> 4 15.15	08/31/04	Oil and Grease	BPA 1664A LLE	2.4	vn
l	l		l — _	·-· -		-· -·
Uous 38:4 Intake	8/9/04 15:20	08/27/04	Oil and Grease	EPA 1664A LUE	1.4	Nib
Units 3&4 Outfall	8/9/04 14:45	08/20/04	Oil and Grease	EPA 1664A LLE	1,4	מא 🗆
Units 3&4 Intake	_X/9/04_ <u>17</u> :55	08/27/04	Oil and Grease	EPA 1664A LLE	l.4	ו סמ
Units 3&4 Outfall	8/9/04 17:30	08/20/04	Oil and Grease	EPA 1664A LUR	i.4 i.4	ND
Units 3264 Intake	8/9/04/20:20	08/27/04	Oil and Grease	EPA 1664A T.L.b.	<u>1.4</u>	ND.
Units 3&4 Outfall	8/9/04/20135	08/20/04	Oil and Grease	EPA 1664A 1.T.F.	14	ND
Units 3&4 Intake	8/9/04 23:15	08/27/04	Oil and Grease	EPA 1664A LLB	14	ND
Units 3&4 Outfali	8/9/04 23:25	08/20/04	Oil and Grease	EPA 1664A LILE	1.4	-ND
Unus 36.4 Intake	8/10/04 2:15		Oil and Grease	EPA 1664A LLE	1.4	ND
Units 3&4 Ourfall	8/10/04 2:31		Oil and Grease	EPA 1664A 1.J.C	1.4	XD
Units 3&4 Intake	8/10/04 5:15	- —	Oil and Grease	10PA 1664A ELE	1.4	. —.
Units 38:4 Outfall	8/10/04 5:35		Chil and Grease	hPA 1664A LLE	<u>:7</u>	ND 1
Units 3 &4 Thiake	\$/20/04 8:15	08/27/04	Oil and Grease	EPA 1664A LLE	L.4	
Units 3&4 Octfall	8/10/04 8.35	09/03/04	Oil and Greek:	EPA 1664A LLE		יי שא
Tipits 3&4 Intake	8/10/04 [1:15	09/03/04	Oil and Grease	EPA 1664A LLE	. <u>l.4</u> .	ND
Units 3264 Outfull	8/10/04 11:35	09/07/04	Oil and Grease	EDV 1994V LTF		-ND
Units 3&4 Intake	8/10/04 14:15	09/03/04	Oil and Grease	EPA 1664A LLE	1.4	
Units 3&4 Outfall	8/10/04 14:35	09/07/04	Otl and Grease	EPA 1664A LI H	_	ND
<del></del>	<u></u>	_ """	Oil Eld Chease.	Fr. 1004X 1.1 K	1. <u>4</u> .	ND
Method Blank		08/20/04	— Oil and Grease	6PA 1664A LLE	-; ,	
Method Blank	_ }		Oil and Grease		1.4	NI)
Method Blank	-		Oil and Grease	EPA 1664A LLE	1.4	- ND
Method Blank	·-·		· · <b>-</b> ·	12PA 1664A L.LE	-1.4	(0%
Method Blank	l }		Oil and Grease	EPA 1664A LLE	1.4	ИD
Method Blank	· –   -	-	Oil and Grease	EPA 1664A LLE	1.4	_ND
Method Blank	··		Oil and Grease	EPA 1664A LLE	1.4	ND
THE PROPERTY OF THE PARTY OF TH		09/07/04	Oal and Grease	EPA 1664A LLE	_1.4	_ ND ]
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SUSPENDENSORIUS	DATE COLLECTED	DATE		METHOD	R). (mg/L)	RESULT (mg/L)
Units 1&2 Intake	8/9 to 8/10/04		Total Susp. Solids	SM 2540 D	2.0	11.4
Units 1&2 O <u>utfall</u> Units 3&4 Intake	8/9 to 8/ <u>10/</u> 04 8/9 to 8/10/04		_ · · · · -	SM 2540 D SM 2540 D	7.0 <u> </u>	9.0
Units 3&4 Outfall	8/9 to 8/10/64		I— · —	SM 3540 D	2.0	− <sub>ND</sub>
Method Blank	8/9 <sub>40</sub> 8/10/04		Total Susp. Solids	SM 2540 D	1.0	
l <u></u>	_	l <u> </u>	J	L	l	L

COLUR	DATE OID SCIED	PATE ANALYZED	AND THE RESIDENCE AND THE PARTY OF THE PARTY	METHOU	Rt.c (mg/L)	RRSULT.
— + — + — + — + — + — + — + — — + — — + — — + —	9 to 8/10/04		Color	SM 2120 B	5	ND
<u> </u>	9 to 8/10/04	_	Color	<u>SM</u> 2120 <u>B</u> .	_ 5	ND
<u> </u>	9 to 8/10/04   9 to 8/10/04	_	Color Color	SM 2120 B SM 2120 B	5	ND
Janes Jack College C.	* io a ( ( 04.	02/11/04		224 71 511 12	-	<u> wo</u>

North Street Experience	norski karalisa (j. 1900) Aktorija karalisa (j. 1900)	SETTEN Galest
Uprts 1&2 Lotake C8/9 to 8/10/04_	08/11/04 Nitrite-Nurate-N EPA 300.0   N	
Unita 1&2 Outfall C. 8/9 to 8/10/04	08/11/04   Nitrite-Nitrate N   199A 300.0     NI	o 1
Units 38/4 Intake C. 8/9 to 8/10/04	08/11/04 Nitrite-Nitrate-N EPA 100.0   NI	اد
Units 3&4 Oxefall C 8/9 to 8/10/04_	08/11/04 Nitrite Nurate-N EPA 300.0 1 NI	- 1
Method Blank	06/11/04 Nitrite-Nitrate-N EPA 300.0	o 7
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Maria A		<u>and the base of the experienc</u>	4.0	3 16 Fig. 1, 128 Feb. 1
Units 1862 Intake C.	8/9 to 8/10/04	08/11/04 Sulfate	ISPA 300.0	200 2550
Units 1&2 Outlift C	8/9 to 8/10/04	08/11/04 Sulfate	EPA 300,0	200 - 2560
Units 3&4 Intake C.	8/9 to 8/10/04	US/i U04 Suffate	EPA 300.0	200 2580
Units 38/4 Outfall C.	] 8/9 to 8/10/04	08/11/04 Sulfate	UPA 300.0	200 2590
Method Blank	Ť I	08/11/04 Sulfate	EPA 300.0	h
	h		12.000	2 ND
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SULPITE VI	DATE CONTECTED	DATE ANALYZIO	PARAMETER	METHOD	Karata Arta Barra	arstij T
Units 1&2 Intake (),	8/9 to 8/10/04	08/11/04	Sulfite	SM 4500-SO <sub>3</sub> <sup>2</sup> B	ı	ND
Unsts J <u>&amp;</u> r2 Outfa <u>li</u> C.	8/9 tn <u>8/</u> 10/04]	08/11/04	Suitāte	SM_4500-SO <sub>1</sub> 2 B	I	ND
Units 3&4 Inteke C.	8/9 to 8/10/04	08/10/64	Solfie	SM 4500-SO <sub>2</sub> <sup>2</sup> B	_ [	ND_
Units 38/4 Outfall C ;	8/9 to 8/10/04	08/11/04_	Solfit <u>e</u>	8M 4500-SO/18	l	_ מא
	i _	L . I				

	DATE	DATE	. Washington S		RL	: Resijist
SULPHOR	COLLEGED	ANALYZĚD	PARAMETER	метнор	(mg/L)	(Lign)
Umits <u>, 1&amp;</u> 2 Intake C.	8/9 to <u>8</u> /10/04	08/11/04	Sulfide	SM 4500-82 D	0.02	ND
Ungis 1&2 Outfall C.	8/9 to 6/1 <u>0/</u> 04	08/11/04	Su <u>lfi</u> de	SM 4500-S*D	0.02	ND "
Units 3&4 Jucake C	8/9 to 8/10/04	08/11/04	_	SM 4500-S <sup>2</sup> D	0.112	ND
Cants 3&4 Outfall C.	8/9 to 8/10/04	08/11/04	Sulfide	SM 4500-S <sup>2</sup> T)	0.02	םאַ –
l	·	_		[ ]	_ <u>-                                   </u>	

26.0		1300000 20000000000000000000000000000000				
Units 1&2 Intake C.	8/9 to 9/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Costs 1&2 Outfall C.	8/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 3/6/4 Intake C.	S/9 to 8/10/04	08/12/04	Total Magnesium	SM 3111B	40	1190
Units 3&4 Outfall C.	8/9 to 8/10/04	118/1/2/04	Total Magnesium	SM 3111B	40	1160
Method Blank		08/12/04	Total Magnesium	SM 3111B	0.02	ND
	L.	[]	<u> </u>	]	Γ''	]

			buratory Control Sam	ple		
	Date		LCS Cunc.	Result	LCS	Accept.
Analyte	Analyzed	ļ .	(nig/L)	(mg/L)	Recovery	Range
				]	<u>.i</u>	<u>                                       </u>
Nitrate-N WP-111	08:11/04	l .	5.46	5.69	104%	79-119%
Sulfate ERA 506	08/11/04	[ ]	34.6	34.6	100%	85 115%
Oil and Greate OFR	08/27/04		40.0	37.5	94%	78-114%
Oil and Grease QA	08/31/04		28,0	27.1	97%	78-114%
Oil and Grease OPR	09/01/04	· · · · ·	40.0	34.8	87%	78-114%
Oil and Grease OPR	09/03/04	[	4.0	3.7	93%	78-114%
Oil and Grease OPR	09/07/04	[	40.0	34.3	86%	78-114%

		Matrix Spike				•
	Date	Sample	Spike Conc.	MS	MS	Accept.
Analyte	Analyzed	Spiked	(mg/L)	(mg/L)	Remvery	Range
Oil and Grease	07/20/04	<u>LD-04</u> 0712-RB-0G-1	49.0	42.5	106%	78-114%
Nitrate-N Sulfate	08:11/04 08:11/04	Units 3&4 Ourfell Units 1&2 Ourfall	5 D0 10.0	5.17 10.0	<u>L03%</u>	85-115% 85-115%
			]			<b></b>

Caits Land 2 Summery

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Boohernica Coppen Demand (BOD)	: #:	: ;	:		:	;	. :		:			÷			i			İ	· :	<u>.</u>	:
Cremical Oxygen Demand (BOD)	%=	2	;	;		:	;			;	:	¥.	;	;	:	;	;			إ: .	
Total Organic Carbon (TOC)	3	. <del>,</del>	:	:	;		;	;	:		;	· ·	;					!		::	i
Total Suspended Solids (TSS)	**	, c			:	:	;				:	 2	:	;	:	;	;				
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-enperature	<i>}</i> -		20.4	19.3	5.281	18.7	- 14	. K.X.	2	1.0	0.5	•	<u></u>	Ŕ	Ж	· · ·	 *	2	10.0	18.5	980
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PART B - POLLUTAINT			7,7	::	.:3			-4			::3		   	.:: :x:	î.	 ÿ.	9 2:-	ŀ.	÷	-	
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Вега ( <u>д.h.) Ресу</u> вена	1.5.	<2.0		! :	  -		:		:	'	23.0	!	:	_			 : :	١,	<u> </u>
Berzo Ki Fluora-Mena	1.00	45.0	ٔ ،			<u>.                                    </u>	<u>-</u>	į.,	-	:	69		-	:	י!	  -	:		
88 (2-Chloruet coyfi methans	JHT	421	' .		<u> </u>	Ľ	•	;	:· :	:	f Ş I	-	_	-:- :			:	:-	:
Bis(2-Chloraetyr) other		£.	  '		!	<b>:</b>	: Г	:	:	:	00   00	:	- i '	ļ	: [.	ļ , —	:	j :	
Breiz-Chloroisopropyl, ather			اً،	!				١.	1	٠.	0.5%	:	:	! .	<u> </u>	: 	:	ŀ	• ·
Ba(2-Et-yhenyt, phihatale	 Fe₁	۲۱ ۶	-	<u>                                     </u>			1	ا	:		0.60			-	<u>'</u>	- İ	!	†-	i :
4-Bromophemy prenyl ether	- ਜ਼ੌ-	979	-		· · .					ا: ا	ŝ		1	:	<u> </u>		-	- :	٠,
Party perty/ photograph	- F6':	4.0	إ	; j	<u>'</u>	<u>'</u>	ا: 	<u>'</u>	:	;		:	- 1		· 	-	;	!	;
7 Littleronephit 819-16		3.0		:	<u>'</u> -	<u>'</u>	: .1	;		;	,		: : j			ı 		:	: :
4-1-Munophery plianyled ar	الأرا	ا د ژه	i	<u> </u>	.]	!! 	ا:	•	:	:	ö	;				· :	-		:
Chrysene	를 발	- ئۆر	<b>.</b>			; : j	:	ļ	:	:	50	-  -	;		-		,	1	:
L.Merzoja.hjehtracene	- A	30		:		]	: İ	•	- ; i	1	Ş.	:	 	:	<u> </u>		_		:
6r82-800001-0 7 2	ا الح		;	:	-	: :-		- :	;	:	ŝ	- : :	:	i		:	ı ·	-:    :	:
1.3 D c*lorobe Zere	) (M)	0.7	:	,	<u>'</u>	4	; <del> </del>	:	i	;	် ဦ		: <sub>1</sub>	- -			۱	l i	:
The Charles of the Charles		 ژ:	:	!	-	: - ;	<u>.</u>		:	:	43.0	:	;	<u></u>  -	:	; ;	; '	١	:
Dethal protestate		9 6	: :	- :	'!' !		ا. آ	:	· ;	:		:	٠,	-	: .[	!! -	:	ı,	:
D methyl phthálala	T, 0-1	† ៈពូ	:	1	<u>'</u>		:		:	: :	30	: :	· 	;;	: :	•	: :	.   ر	: :
4-n-Putyty Unibele		0.24		. <u>-</u>	<u>!'</u>	ľ	! ; —	:	:	:	<del>!</del>	١,		-  -	: i.	ļ; -	;	. i	٠,
				!								'		- i	-		!		

Units 5 and 4 Summary

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Pace Analytical Services, Inc. Waitz Mill Laboratory - M862 P.O. Box 158 Madison, PA 15663 Phone: 724,722 5407 Fax: 724,722 5208

September 16, 2004

Mr. Paul Mead Calactence Environmental Laboratories 7440 Lincoln Way Garden Grove, CA 92841-1432

> Wastewater Characterization 04-08-0549 Pace Project No. 04-1139

Dear Mr. Mead:

Enclosed are analytical results for samples submitted by Calectence Environmental Laboratories. Samples were received on August 13, 2004 and logged in for analysis on August 16, 2004.

Methods used are indicated on the actached data table. Appropriate quality assurance/quality control analyses were performed in accordance with Pace, Waltz Mill Site Quality Assurance Plan. The results reported in this project meet the requirements as specified in Chapter 5 of the NELAC Standards. Any deviations or discrepancies from the NELAC standards are documented in the mane carrative(e) of this report. If you have any questions, please call me at 724-722-5219.

Richard M. Kimney

Radiochemistry Laboratory Supervisor

ank: jan

Enclosures

## PACE ANALYTICAL SERVICES, INC. CASE NARRATIVE

I.	PRO	JECT LOGIN INFO	RMATION:			
	<b>A:</b>	PROJECT NUMBE	iks:			
		PACE:	24-1139			
		CUIBNT:	<u>24 - 38</u> - 0 <u>54 9</u>			
	ъ;	SAMPLE IDENTI	FICATIONS:			
		Pace In	Client ID	Pace ID	Client ID	
		0409-0411	162 Intake Composit	:m 0408-0412	162 Outfall	Cornosia
		0408 0413	364 Intako Compusit	e 0408-0414	3&4 Outfall	Composit
	C:	SHIPPING/RECE	IVING COMMENTS:			
		Final Report	9/16/04.	,		<b>_</b>
Tï.	PRE	PARATION/ANALYS	TS COMMENTS:			
	A.	RADIOLOGICAL:				
		NONB				
III.	GEN	ENAL COMMENTS:	· · ·			
		Trailing ze	roes and decimal plac	eo sonasy(an a	en timo dans viv	
		be interpre	ted as precision of ti	ho analye(e.)	ornordura but	901-0 305
		as a result	of reporting format.	no enalycical	<u> </u>	rather
		Sample (s) =	malyzed and reported	<u>on am as recei</u>	<u>ved basis</u> .	

Table 1
General Data Table
Caleciance Environmental Laboratoring
Pace Project No. 04-1139
Wastewster Characterization, 04-08-0549

İ				**	Page 1 of 5
			ਹੈ -	Samule ldentification c4ca-04ca	- E
	Analytical		<b>3</b>	162 Intake Composite (8/10/04)	t
Satameter	Method	Units	Aralyzod	Act : Unc (MDC)	<u>DC:</u>
Gross Alpha	BPA 900.0	pCi/1	09/01/64	-26.4 ; 20.5	(53.7)
Gross Bots	BPA 900.0	pCi/L	09/01/04	33 9 ± 17.4	(29.6)
Ra-226 (RPA 903.1)	EPA 903.1	pCi/L	P0/03/04	0.543 ± 6.458	(059.01
Radium (Total Alpha)	332C	B0#/E	09/15/04	0.429 + 6.502	(0.817)
				į	

oth-Activity, Unc-2 signs Uncertainty and (MDC)=the associated Minimum detectable Concentration.

Table 1 [Continued)

Paroteter	Amaly.Lical		Sal   142   Abalyzed	Sample   Identification   0408-5412     152	rite
бгове Агрич	EPA 900.0	1/734	69/01/04	16.9 + 22.3	(42.0)
Groee Bota	RHA 900.0	PC9/7	PD/T0/60	31.9 ± 16.8	(2B.4)
RA-226 (BEA 903.1)	RPA 903.1	pCi/2	119/05/04	1.14 ± 0.676	(166 0)
Radium (Jote) Alpha:	9550	DCi/L	09/14/04	0,037 + 0.555	(1.22)
			İ		

Accordingly, Nuce2 sigma UnderLeinty and (MDC) = the associated Minimum Descetable Conventration.

rable l (Continued)

Pagalletes:	Analyrical	Unit:	58 56 708_Yzed	Sample identification 0408 0413 364 Intake Composite (8/10/64)	Page 3 of 5   State
	0	17900	69/01/69	1.65 1.699	(73.21
Gross Alpha	n. nns. 1449	1	******		31 92.
Gross Brts	ଜ. ୭୯୧ କ୍ୟୁଷ	nor/	#3/T5/#0	5 0 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	19.00
Rs 226 (EPA 903.1)	HPA 903.1	pci/h	40/70/60	026.5 # 784.0	(0.000)
Radium (Total Alpha)	9320	pCi/1	#0.7 <b>4</b> 1.760	207.7 # 61T.0-	(200.0)
İ					

Arc=Activity, Unc-2 sigma Uncertainty and (ADC) -the associated Minimum Detectable Concentration.

rable 1 (Continued)

Page 4 of 5   Identification Da08-0514 CLall Composite (8/10/09) ACT = Unc (NDC)	26.B (53.6; 21.2 (27.6) 6.375 (0.608) 0.546 (0.839)
St Ou	12.4 ± 26.8 68.8 ± 21.2 0.324 ± 0.375 3.815 ± 0.546
3	05/01/04 05/01/04 09/03/04 09/16/04
Upite	pC1/1 pC2/L pC1/L pC1/L
Abalytical Method	232 900.0 RVA 900.0 BFA 903.1
Parameter	Gross Alpha Orpsu Beta Ru-226 (SPA 903.1) Radium (Total Alpha)

AcceActivity, Once2 sigmy Ducertainty and (MUX)-the associated Xinimum Descorable Describing

Table 1 (Continued)

<u>Page 5 of</u> 5		(0.640) (0.750) (0.728)
Eager Sample Identification 0408 0415 Method Blank (£/13/04)	Ach + One (MDC)	0.177 ± 0.202 0.235 ± 0.362 0.140 ± 0.420 0.141 ± 0.232
55          	Analyzeo	09/01/04 09/01/04 08/31/04 09/16/04
       .	Units	pCi/L pCi/L pCi/L pCi/L
	Analyllon, Kethod	EPA 400.0 EPA 900.0 EPA 903.1
07	Savanether	Gross Alpta Gross Wata Ra-126 (EPA 903.1) Radjum (Total Alpha)

Act=Activity, Unc-2 signa Observatory and (MDC)-the associated Minimum Detectable Concentration.



STL Los Angeles 1721 South Grand Avenue Santa Ana, ICA 927(5)

To: 714 258 8610 | Fax. 714 258 0921 | www.sll-inc.com

September 1, 2004

STL LOT NUMBER. **E4H110325** PO/CONTRACT: V2033901

Shawn Simmons
Southern California Edison Com
7301 Fenwick Lane, 2nd Floor
Westminster, CA 92683

Dear Mr. Simmons.

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on August 11, 2004. These samples are associated with your 04121 project.

STL Los Angeles certifies that the test results provided in this laboratory meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is 01118CA.

Any matrix related anomaly is footnoted within the report. A cooler receipt temperature between 2-6 degrees Celsius is within EPA acceptance criteria. The temperature(s) of the cooler received for this project can be found on the Project Receipt Checklist. Historical control fimits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page except as noted on the following page.

Preliminary results were sent via facsimile on August 31, 2004.

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000038

This report contains \_\_\_\_\_\_pages.



#### CASE NARRATIVE

- There was insufficient sample volume provided to prepare a project-specific MS/MSD for the 8270C analysis. A duplicate LCS has been prepared to provide accuracy and precision measurement for the samples in this project.
- 2) EPA Method 8290 was performed at STL Sacramento. Located at 880 Riverside Parkway, West Sacramento, CA 95605. The contact is Mr. Jon Gildersteeve, Telephone No.: 916-373-5600.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisot Tabirara Project Manager

As animal Tokuma

on Project File



# Analytical Report

## ANALYTICAL REPORT

04727

lot (: 84H110325

Shawn Simoos

Southern California Edison Com.

SEVERN TREMY LABORATORIES, INC.

**Marisol Tabirara** Project Manager

August 31, 2004

## EXECUTIVE SUMMARY - Detection Highlights

## B4R110325

PARAMETER  162 OUTFALL COMPOSITE 08/10/04 002	ke <u>suut</u>	REPORTING LIMIT	UNTTS	ANAL-YTICAL DORTH
1,2,3,4.6,7,8-MpCDD Total MpCDP Total MpCDD	130 28 200		pg/L pg/L pg/L	SW846 8290 SW846 8290 SW846 8290
364 OUTFALL COMPOSITE 08/10/04 004				
bis(2-Ethylhexy1) plithalate	5.9 J	10	ug/1.	SW645 82702

## METHODS SUMMARY

## B411110325

PARAMETER	NNALYTICAL METHOD	MELROD TON
Dibenzodioxins and Dibenzofurans, RRGC/SRKS	SW846 8290	SN946 8293
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SN846 3510C

#### References:

SWB4€

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

#### B4H110325

NO # SAMPLE CLIENT SAMPLE XI			SAMPLED SAMP DATE TIME
GMX4T 001 %52 INTAKE COMEX GMX46 002 122 DUTFALL COME GMX47 003 3&4 INTAKE CXMPT GMX48 004 3&4 OUTFALL CXM	OSITE OSITE		08/10/04 08/10/04 08/10/04 08/10/04
NOTE(S):		<del>_</del> <del></del>	<u>-</u>

- . The analytical results of the symplet linear above are presented to the financing diagram.
- . All calculations are performed before routing to avoid norm-off errors at calculated results
- Regular noted as "NEO" were our detected to an approximation states letter.
   This report must raw be reproduced, model in full, without the written approval of the laboratory.
- Replies for the Sillowing parameters are nover imported on a day weight basis, colon, corrusivity, density, theorem, ignitability, agers, once, part filter swo, pH, princip pressure, instituty, redoc potential spreidic gistary, spot exist solids, coloniary, temperature, reprodity, and weight.

## Client Sample ID: 142 INTAKE COMPOSITE

#### GC/MS Semivolatiles

Lot-Sample #...: K4H110325-001 Work Order #...: GMX4T1AC Matrix.....: WATER
Date Sampled...: 08/10/04 Date Received..: 08/11/04 14:50 MS Run #.......

Date Sampled...: 08/10/04 Date Received..: 08/11/04 14:50 MS Ru Prep Date.....: 08/12/04 Analysis Date..: 08/12/04

Prep Date.... 7 08/12/04 Analysis Date..: 08/12/04
Prep Batch #...: 4225334 Analysis Time..: 13:28

Ullution Factor: 1

Analyst ID....: 007050 Instrument ID.:: MSJ

Method...... 8W846 8270C

		REPORTIN	ş.		
Parameter	result_	LIMIT	UMITS	WEL	
N-Mitrosodimethylamine	MD	20	ng/L	7.0	
Benzidine	жp	20	ug/L	13	
1,2 Diphenylhydrazine	NID	10	ug/L	2.0	
(as Azubenzene)					
Acenaphthene	ИД	10	աց/և	3 0	
Acenaphthylene	ND	10	აე/∟	2 0	
Anthraceno	ΝĪ	10	υ <u>σ</u> /υ	2 3	
Renzo (a) anthracene	MD	1.0	uq/L	2.0	
Benzo (b) fluoranthene	ND	10	υg/≟	5.D	
Benzo(k) fluoranthenc	MD	1.5	ug/L	5.0	
Hanza (ghil peryl <b>en</b> e	ND	10	ug/L	2.0	
Benzc (a) pyreno	MD.	10	ng/L	2.0	
Henzois adid	ND	5D	${\tt ug/L}$	27 -	
Benzyl alcohol	Mp	10	ug/⊾	5.0	
bis(2-Chloroethoxy)	MD	10	ug/L	2.0	
methane					
bis42-Chloroethy1)-	ND	10	ωg/L	3.0	
ether					
his(2-Chloroisepropyl)	MI	10	ug/t	4 . C	
echei					
his(2-Ethylhexyl)	ND	10	ug/L	4.0	
phthalate					
4-Bromophenyl phonyl	MID:	10	ոց/Ն	2.0	
ether					
Butyl benzyl phthalate	ND	70	ug/L	4.0	
Carbazol <b>e</b>	ND	7.0	սց/ն	2.0	
4-Chloroaniline	ND	10	ug/L	\$.0	
4-Chloro-i-methylphenol	ND	10	ug/L	2.0	
2-Chloronaphthalene	ND	10	vg/L	3.0	
2-Chlorophenol	ND	10	ug/L	0.0	
4-Chlorophenyl phenyl	MD	10	ug/L	2.0	
ether					
Chrysece	NID	10	ug/L	3.0	
Dibenz (a, h) anthracene	ממא	16	ng/5	5.0	
Dibenzoturan	ND	10	vg/L	2.0	
Di n-butyl phthalate	ND	10	սց/ե	2,4	
1,2-Dichlerobenzene	MT:	10	ug/L	1.0	

(Continued on next page)

## Client Sample ID: 362 INTAKE COMPOSITE

## GC/MS Semivolatiles

Lot-Sample #...: E46110325-001 Work Order #...: COX4T1AC Matrix..... WATER

		REPORTIN	10	
PARAMETER	RESULT	LIMIT	UNIES	84117
1,3-Dichloromenzone		13		<u>мш.</u>
1,4-Dichloroponzene	ND	10	ug/L	3,0
3,3'-Dichlerobenzidine	ND	50	1971 19371	5.0
2.4-Dichlorophenol	ND	10	ug/L	5.0
Diethyl phthalate	NU	10	ug/L	
2,4-Dimethylphenol	NID	10	_	3.0
Dimethyl phthalate	NED TELE	10	ug/L ug/L	5.D
4,6-Einiaro	מא	50	_	2.0
2-methyiphenol		317	ug/L	19
2,4-Dicitrophenol	ND	E 7.		
2,4-Dinitrotoluene	ND	53	0g/L /r	15
2,6-DinitroLuluene	ND	10	ագ/Ն	2.0
Di-n-outyl phihalate	NO	10	ug/L	2.0
Pluorantheme	NIC:	10	ug/L	4.0
Fluorena		10	119/6	2.0
Hexachlorobenzeze	MC MC	10	ug/1.	2.0
Hexachlorobutadiene		10	nd/r	5-0
Hexachlorocyclopenta-	ND	10	vg/L	2.0
diene	NO	50	ug/L	6.C
Rexachloroethana				
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	3.0
Isophorone	ND	10	աց/Ն	2.0
-	NID	10	ug/L	3.0
2-Methylnaphthalene	NT)	10	սց/Ն	3.0
3-Methylphenol	901	10	ug/L	5.0
3-Methylphenol s	100	10	ug/L	2.0
4-Methylphenoi				
Maphthalenc	ND	10	ug/L	3.5
2-Witcomiline	Nb	50	սց/ն	7.7
3-Nitroamiline	ND	50	աց/ն	5.0
4-Nitroaniline	NID	5¢	ug/L	10
Nitrobengene	NE	10	աց/Ն	5.0
2-Nitrophenol	MT:	10	աց/ն	4.C
4-Nitiopheno)	ND	50	12g/U	10
N-Nitrosodiphenylamine	ND	10	ug/L	2.0
N Nitramodi-n-propyl-	ND	10	ug/L	4.0
amine				
Pentachlorophenol	ND	50	ug/t	10
Phenanthrenc	MIC	10	աց/ն	2.0
Phenol	ND	10	ug/L	2 0
SAEGUO	ZD.	10	ug/L	3.0
1,2,4-Tricklero-	ND	10	ug/L	5.3
benzene				4
2.4.5-Trichloro-	XID	10	ug/L	5.0
phenol			<b>4</b> 5, <b>4</b>	V · V

(Continued on next page)

## Client Sample ID: 152 INTAKE COMPOSITE

## GC/MS Semivolatiles

Lot-Sample 3 34H110325:301 North Order 3	- SMYATTAC	Matrix	WATER
--	------------	--------	-------

PARAMETER 2,4,6-Trichloro- phenol		RESULT	REPORTING LIMIT 10	UNITS	МD <u>-</u>
		PERCENT	RECOVERY		
SURROGATE		RECOVERY	LIMITS		
2-FluorObiphenyl	—-	60	145 - 210)		
3 ₹luorophenol		39	(10 - 75 )		
2,4,6-Tribromophenol		70	(30 - 225)		
Nitrobenzens-d5		60	(40 110)		
Phenol-d5		25	(10 - 60 )		•
Temphonyl-d14		85	(35 - 125)		

#### Client Sample ID: 152 INTAKE COMPOSITE

#### Trace Level Organic Compounds

Lot-Sample #...: E4H110325-001 Nork Order #...: GMX4T1AA Malrix......: WATER

Date Sampled...: 08/10/04 Date Received..: 08/11/04 14:50 MS Run #.....

Prep Date....: 08/17/04 Analysis Date..: 08/18/04 Prep Batch #...: 4230179 Analysis Time..: 05:16

Dilution Factor: 1

Analyst ID....: 002457 Instrument ID..: 8D5

		DETECT ION			
PARAMETER	RESULT	LIMIT	UNITS	CORTIAN	
1,2,3,7,8-PeCDF	NED .	1,1	pg/L	SW846 8290	
2,3,4,7,8-PetCF	អោ	1.1	pg/L	\$ <b>WB4</b> 6 8290	
1,2,3,4,7,8-HXCDF	NTD	0.94	թց/Ն	<b>SW846 82</b> 90	
2,3,4.6,7,8-HXCDF	NTI .	0.91	թց/Ն	50846 8290	
1,2,3,7,8,9-HxCDF	מא	1.0	pg/4	\$ <b>W84</b> 6 8290	
1,2,3,4,6,7,8-HpCDF	ND	1.5	gg/L	SW846 8290	
1,2,3,7,8-PeCCD	KITI	1.6	pg/L	5W846 8290	
1,2,3,7,8,9-HxCDD	ND	2.0	<b>6</b> 2/2	SW846 #290	
1,2,3,4,6.7,8-MpCDD	ND	7.4	pq/L	5 <b>W8</b> 46 <b>6290</b>	
1,2,3,6,7,8-HxCDF	KD	0.83	pg/L	SW846 B290	
1,2,3,4,7,8,9-HpCDF	ND	1.9	pg/4	9%846 9290	
1,2,3,4,7,3-HxCCD	ND	2.4	pg/L	QWQ46 8290	
1,2,3,6,7,8-PxCDD	NE	1.9	pg/L	9W846 8290	
Total TCDF	ND	1.0	pg/L	SW046 0290	
Total ReCTUF	MD	1.1	pg/L	9W846 9290	
Total ExCDF	ND	1.0	թց/ե	SWB46 8290	
Total HpCDV	ND	2.3	pg/L	SWB46 8290	
Total 7000	ND	0.98	pq/L	B16846 8290	
Total PeCDD	ND	1.6	pg/L	SW946 0290	
Total HxCDD	ND	2.4	pg/L	<b>916846</b> 8290	
Total MpCDD	NO	7.4	pg/L	<b>%¥84</b> 6 8290	
2.3,7,8-TCDD	ND	0.98	pg/L	<b>SW04</b> 6 <b>02</b> 90	
2,3,7,8-TCDP	ND .	1.3	рч/ь	<b>\$W</b> 846 8290	
	PERCENT	RECOVERY			
INTERNAL STANDARDS	REÇOVERY	LIMITS			
130-2,3,7,8-TCDD	97	(40 - 135)			
13C-1.2.3,7,8 PeCDD	73	[40 - 105]			
13C-1,2,3,6,7,8-HxCDD	112	(40 - 135)			
13C-1,2,3,4,6,7,8-HpCDD	101	(40 - 135)			
130-0000	99	(40 - 135;			
11C-2,3,7,8-TKDF	164	140 - 135			
13C-1,2,3,7,8-PeCDF	102	(40 - 13S)			
13C-1,2,3,4,7,8-HxCDF	115	[40 - 135]			
13С-1,2,3,4,6,7,8-нрСви	128	(40 - 135)			

## Client Sample ID: 142 OUTFALL COMPOSITE

## GC/MS Semivolatiles

Lot-Sample E...: E4H110325-302 Work Order E...: GAM451AC Matrix..... WATSR

Date Sampled..: 08/10/04 Date Received..: 08/11/04 14:50 MS Run #......

Prop Batch #...: 4225334 Analysis Date..: 15:59

Dilution Pactor: 1

Analyst ID....: 007050 Instrument ID.,: MSI

Hethod ..... : SWE46 8270C

		BRPORTIN	REPORTING		
	RESULT	1.TMLT	цы LTG	MODL	
PARAMETER	<u>xb</u> bbb	20	ug/1.	7.0	
N-Nitrosodimethylamine	ND ND	26	eg/L	13	
Benzidise	ND .	10	ug/t.	2.0	
I,2 Diphenylhydrazine	342 .		•		
(as Azobenzene)	ND	10	ug/L	3.0	
Amenaphthene	ND:	15	ug/L	2.0	
Acenaphthylene	NID	10	09/4	2:0	
Anthracene	טא	10	ug/2	2.0	
Benzo (a) anthracene	מא פא	10	ug/L	5.0	
Benzo(h) fluoranchese		10	ug/L	5.0	
Bonzo(X) fluoranthene	KID.	10	ug/L	2 0	
Benzo(ghi)perylene	MD	10	ug/L	2.9	
Bepz5(a) pyrche	ND	50	ug/L	20	
Benzoic acid	MD	10	աց/ա	5.0	
Henzyl alcohol	300	10	ag/L	2.0	
<pre>bis(2 Chloroethoxy)</pre>	MΩ	14	09/2		
methane		10	սց/ն	3.0	
bis(2-Chloroethyi)-	NP	70	0412	2.10	
ether		4.6	ug/L	4.0	
bis(2-Chlurcisopropyl)	310	1.C	ug/L	41.5	
ether				4.3	
bis(2-Ethylhexyl)	ND	10	սց/ն	4.0	
phthalate		4.0	սց/Ն	2.0	
4-Bromophenyt phenyl	<b>N</b> D	13	497.0		
eth <del>e</del> r			աց/ն	4.0	
Botyl menzyl phthalate	)AD	31:	_	2.0	
Carbazolo	NC	10	ug/L	3.0	
4-Chloroanilise	ND	10	ug/1.	2.0	
4-Chloro 3-methylphenol	NO	10	ψg/L	3.0	
2-Chloronaphthalen <del>s</del>	CM	10	ug/L		
2-Chlorophenol	ND	7.0	ug/2	3.0	
4-Chlorophenyl phenyl ether	ND	10	սգ/չ	7.0	
Chrysene	ΔIK	10	ug/L	2.0	
Dibenz(a,h)anthracene	ND.	10	ag/L	5.0	
Dibenzofuran	בא	10	սց/Ն	2,0	
pi-n-butyl phahalate	KD.	10	ug/S	20	
1,2-Dichlorobenzese	ND	10	ug/5/	3.0	
r, z-pichtoronenzene	1-6		•		

(Continued on next page)

## Client Sample ID: 142 OUTFALL COMPOSITE

## CC/MS Semivolatiles

Not-Sample #...: SaHilo325 002 Work Order #...: GMX461AC Matrix...... WATER

		REPORTIN	G			
PARAMETER	RESULT	LIMIT	UNITS	imr		
1,3-Dichlorobenzene	ND	13	1:g/L	Z . U		
1,4 Dichlorchenzene	ND	10	աց/ե	3.D		
3,3 -Dichlorobenzidine	мD	50	ug/1,	5 · D		
2,4-Dichlorophenol	ND	10	սց/ւ.	5.0		
Diethyl phthalate	ND	10	ug/C	2.0		
2,4-Direthylphenol	NΦ	10	աց/ե	5.0		
Dimethyl pothalate	MD	10	ng/L	2.0		
4,6 Dinitro-	ND	50	ug/L	76		
2-methylphonol						
2,4 Ninitrophenol	ND	50	ug/L	1.5-		
2.4-Dimitrotoluene	MD:	10	ug/L	2.0		
2,6-Dinitrotoluene	NE	10	ug/L	2.5		
Di n octyl phthalate	ND	10	ug/L	4.0		
Fluoranthens	NID	10	ug/L	2 0		
Fluorene	ND	10	ug/L	2.0		
Hexachlorobenzone	מוא	10	աց/Ն	5.0		
Hexachlorobutadiene	ND	10	ug/€	2.0		
Hexachiorocyclopenta-	ND	96	ng/L	6.D		
diene						
Hexachlorocthane	ND	10	ug/t	3.0		
Indeno(1,2,3-cd)pyrene	INZ)	10	սց/ե	2.0		
Isophorone	CN	10	ug/t.	3.0		
2-Methylnaphthalene	ND	141	ug/3.	3.0		
2-Methylphenol	MD.	15	աց/ե	5.0		
3-Methylphenol &	KT.	10	ug/n	2.0		
4-Methylphenol			_			
Naphthalene	ND.	10	սց/Ն	3.0		
2-Kitroapiiine	ND	50	ug/14	10		
3-Nitroaniline	ии	50	ug/L	5.0		
4-Nitroanlline	MD	50	ug/L	10		
Nitrobenzena	ND	10	μg/L	5.0		
2-Nitrophenol	ND	חג	ug/L	4 . C		
4-Nitrophenol	NĐ	50	u <del>g</del> /≤	1.0		
N-Nitrosodiphenylamine	CM	10	ug/1,	2.0		
w witrosodi-n-propyl	ИL	13	ս⊈/Ն	4.0		
Pentachlorophenol	ND	Su	աց/ե	3.0		
Phenanthrene	ND	10	ug/L	2.0		
Phenal	טא	10	ug/L	2.0		
Pyrenc	ND	10	ug/L	370		
1,2,4-Frichlora-	סוא	19	ug/b	5.0		
benzene			4.			
2,4,5-Trichioro-	ME	19	ug/L	5.0		
phenol	111		- <b>]</b>			

(Continued on next page)

# Clical Sample ID: 162 COTTAIL COMPOSITE

# GC/MS Semivolatiles

Lot-Bample #; E4H110325-002	Work Order €:	CMX467AC	Matrix	WATER
PARAMETER 2,4,6-Trichlore- phono:	RESULT	REPORTING LIMIT 10	<u>UNITS</u> ug/L	MD5
SURROGATE 2-Fluorobiphenyl	PERCENT REPOVERY	RR(X/VERY LIMIT <u>S</u> (45 - 110)		
2-Fluorophenol 2,4,6-Tribromophenol	3 <b>9</b> 75	(10 - 75 k (30 - 125)		
witrobenzono-35 Phonol-dS	5B 26 82	(40 - 110) (10 - 60 ) (16 - 125)		
Phono1-05 Terphenyl-d14	82	. — .		

# Client Sample ID: 162 OUTFALL COMPOSITE

# Trace Level Organic Compounds

Lot-Sample \$...: E4H110325-002 Work Order \$...: GKK461AA Matrix..... MATER

Pate Received..: 08/11/04 14:50 MS Run #....... Date Sumpled...: 08/10/04

Analysis Date..: 08/18/04 Prep Date....: 08/17/04 Prep Batch #...: 4230179 Analymic Time..: 01:00

pilution Factor: 1

Analyse in sazis.				
		DETECTION	IN .	
PARAMETER	RESULT	LIMIT	<u>UNITS</u>	METHON
1,2,3,7,8-PeCDF	ND —	1.4	pg/L	5 <b>W846 B2</b> 90
2,3,4,7,B-PeCDF	(O)	1.4	pg/L	9846 82 <b>9</b> 0
1,2,3,4,7,8-HXCOF	ND	2.4	pg/L	6 <b>%84</b> 6 8290
2,3,4,6,7,8-HxCDF	ND OK	1.4	pg/L	. SWB46 8290
1,2,2,7,8,9-HxCDP	ביא	1.3	pg/L	\$W846 8290
1.2,3,4.6,7,8-HpCDF	ND	10	pg/™	5₩046 ∺29C
1,2,3,7,8-PeCDD	ND	2.4	<b>ე</b> g/Ъ	9W846 8290
1,2,3,7,8,9-HXCDD	MD	2.4	29/1	SW846 8290
1,2,3,4,6,7,8-HpCDD	130		pg/L	9W846 8290
1,2,3,6,7,8-HXCOP	ND	1.0	pg/L	SW946 R290
1,2,3,4,7,8,9-HpCDF	ND	2.6	<b>₽</b> 9/τ.	SN846 8290
1,4,3,4,7,8-RxCDD	NT.1	2.8	$_{\mathrm{Pg/L}}$	SM846 8293
1,2,3,6,7,8 HxCDD	NJ2	8.4	pg/L	SN846 8290
Total TCBP	ND	1.3	pg/t.	SW645 8290
Total PecDF	ND	1.4	pg/L	HW845 8290
Total ExCDF	MD	23	pg/L	SW846 829U
Total UpCOF	28		pd/r	SW846 0290
Total TCDD	प्राप	1.2	pg/L	5 <b>W#46 B29</b> 0
rotal SeCDD	MD	2.4	pg/ъ	SW846 6290
Total HxCDD	NE	8.4	pg/L	5WB46 0290
Total BpCDD	200		pg/L	SW846 A290
2,3,7,8-TCDD	פוא	1.3	pg/L	\$19R46 B290
2,3,7,8-TCDF	SAID.	1.3	pg/L	<b>8</b> 48%6 #%%0
	PERCENT	RECOVER	Y	
INTERNAL STANDARDS	RECOVERY	LIMITS		
13C-2,3,7,8-TCDD	95	(40 - 1	.351	
13C-1,2,3,7,9-PeCDD	91	[40 - 1	35)	
13C-1.2,3,6.7,8-HxCDD	105	(40 - <b>1</b>	135)	
130-1,2,3,4,6,7,8-Неше	96	(40 1	35)	
13C-OCDD	97	(4Q - 1		
13C-2,3,7,8-TCDF	101	(40 - 1		
13C-1,2,3,7,8-FeCDF	101	(4G - 1		
13C-1,2,3,4,7,8-HxCDF	115	(40 - 1		
1.3C-1.2,3,4,6,7,8-MpCDF	106	(40 - 3	.35)	

# Client Sample TD: 364 INTAKE COMPOSITE

### GC/MB Semivolatiles

Lot-Sample #...: Effil10325-003 Work Order #...: GMX471AC Matrix...... WATES

Date Bampled...; 08/10/04 Date Received..: 08/11/04 14:50 MS Bun 4......

Prep Date....: 08/12/04 Analysis Date..: 08/12/04 Prep Batch 5...: 4225334 Analysis Time..: 16:31

Dilution Pactor: 1

Netbod..... 98946 B270C

		REPORTIN	IG.		
PARAMETER	RESOLT	LIMIT	<u>Parcino</u>		
N Nitrosodirethylamine	- CIN	20	աց/ն	7.0	
Benzidine	M.D.	26	ug/L	73	
1,2-Diphenythydrazine	CM	T.C.	ug/L	2.0	
(ms Azobenzene)					
Acenaphthene	ND	5.0	ug/L	3.0	
Acenaphthylene	ND	10	цg/L	2.0	
Anthracene	<b>3</b> 00	٦.0	ug/E	2.0	
Benzo (a) anthracene	ИD	10	ug/L	2.0	
Benzo(h) fiuoranthene	RO.	เส	eg/L	5.0	
Senzo(k)fluoranthene	MD	10	ng/L	5.0	
Senzo(ghi)perylene	ND	10	υg/l	2.0	
Benzo(a)pyrene	NO	17	ug/L	2.0	
Benzoic acid	ND	50	սգ/ե	20	
Benzyl alcohol	NO.	7.0	ng/L	5.0	
his(2-Chioroethoxy)	ND	20	ug/L	2.0	
methane					
his(2-Chioroethyl)-	נוא	10	ug/L	3.0	
ether					
bis(2-Chloroisopropy1)	ND	10	og/≎	4.D	
ether					
bis(2-Sthylhexyl)	ND	13	ug/5	4.0	
phchalace					
4-Bromophenyl phenyl	ND	10	ug/ĭ.	2.0	
ether					
Butyl benzyl phthalato	ND	20	ug/L	4.3	
Carbazole	ND	10	ug/ <b>Ն</b>	2.0	
<pre>4-Chloroaniline</pre>	ND	10	ug/L	3.5	
4-Chluro-3-methylphonol	MD.	10	ug/ե	2.0	
2-Chloronaphthalone	ND	10	ագ/ն	3.D	
2-Chlorophenol.	KD	10	Oq/L	3.D	
4-Chicrophenyl phenyl	MO	10	og/2	2.0	
echer					
Chrysene	ND	10	ug/L	2.0	
Dibenz(a, h) anthracene	ND	10	ug/L	5.0	
Dibenzofuran	ND	10	ug/L	2.0	
Di-c-butyl phthalate	ND	20	ug/L	2.0	
1,2 Dichlorobenzene	ND	10	ug/L	3.0	
			_		

# Client Sample ID: 344 INTAKE COMPOSITE

# GC/MS Semivolatiles

Lot-Sample E...: Z4H110325-903 | Work Order €...: GMX4715C | Matrix...... WATER

		REPORTIN	ia		
PARAMETER	RESULT	LIMIT	UNITS	MDL	
1,3-Dichlorobenzene	NE .	10	ug/L	2.0	
1,4-Dichlorobenzene	NID.	T0	ug/L	3,0	
3.3 -Bichlorobenziding	ND	30	ug/L	5.0	
2,4-Dichlorophenol	ND	10	ug/L	5.0	
Diethyl phthalate	מזוג	10	ug/L	2.0	
2,4-Dimethylphenol	נגע	16	աց/ե	5.0	
Dimethy! phthalatc	ND	ıċ	ug/L	2.0	
4,6.Dimitro	NID	50	ug/L	13	
<pre>2-mathylphenol</pre>					
2,4-⊐iditrophenol	NTD:	50	იუ/ნ	7.2	
2,4-Dimicrotolueme	MID	10	ug/L	2.0	
2,6-Dinitrotalmene	ND	10	ug/L	2.0	
Di-n-octyl phthalate	NTD	10	ug/L	4.0	
Fluoranthene	ND	10	ug/L	2.0	
Fluorene	AD	15	ug/T/	2.0	
Regarbl crobenzene	ND	2.0	eg/L	5.0	
нежаныбоговитаdiens	ND	10	աց/Ն	2.0	
Hexachlorocyclopenta-	ND	50	ug/L	6.D	
diene					
Hexachloroethane	MC	70	ug/L	3.0	
Indeno (1, 2, 3, cd) pyrene	ND	10	ug/L	2.0	
Isophorone	ND	10	ug/L	3.0	
2-Methylnaphthalene	XII)	10	ug/L	3.U	
2-Methylphenol	SID	10	աց/6	5.0	
3 Methylphepol &	ND	10	ug/L	2.0	
4-Methylphenol					
Naphthalone	MI	10	11g/2	3 . D	
z-witroamiline	ып	50	ay/L	10	
3-Mitroamilin <del>e</del>	KD	50	ug/L	5.0	
4 Witroaniline	ыс	50	աց/և	10	
Nitrobenzene	NC	10	ug/L	5.0	
2-Nitrophenol	NTC	10	ug/L	4.0	
4-Nitrophenol	ND:	50	ug/L	10	
N-Nitrosodiphanylamine	ND	10	ug/L	2.0	
n-witrosodi-n-propyl- amine	ND	10	ug/L	4.0	
Pentachlorophenol	ND	50	սց/ն	10	
Phenanthrene	SID	10	սց/ն	2.0	
Phenol	NO.	10	$ug/I_i$	2.0	
Pyrédé	כיא	10	ug/L	3.0	
1,2,4-Trichloro	ND	10	$ug/I_i$	H . D	
benzene					
2,4,5-Trichloco-	ND:	Τ0	ug/L	5.0	
phenol					

# Client Sample ID: 344 INTAKE COMPOSITE

# GC/MS Gemivolatiles

Lot-Sample #: E46110325-003	Work Order #:	GMX471AC	Macrix.	: WATER
PARAMETER 2,4,6-Trichloro- phenol	RESULTND	REPORTING LIMET	un <u>ins</u> ug/L	- MDJ. 2.0
SURROGATB 2-Fluorobiphenyl 2-Fluorophenol	PERCENT RECOVERY 57 40	RECOVERY LIMITS (45 - 110) (10 - 75 )		

79

60

25

B1

(30 - 125)

(40 - 110)

(10 - 60 )

(35 - 125)

2,4,6-Tribrecophenel

Nitrobenzene-d5

Phenol-d5

Terphenyl-di4

# Client Sample ID: 364 INTAXE COMPAGITE

# Trace Level Organic Compounds

Matrix..... MATER Lot-Sumple #...: E4H110325-003 Work Order #...: GMX471AA

Date Received..: 0B/11/04 14:50 MS Rum #.....: Date Sampled...: 08/10/04

Analysis Date..: 08/18/04 Prep Date..... 08/17/04 Analysis Time..: 01:42 **Prep Batch #...: 42**30179

Dilution Pactor: 1

Jastrament ID. : 805 Smalyst ID....: 002457

Analyst ID 002457	June 1	,		
		DETECTION		
	RESULT	LINTT_	OKITS	
PARAMETIER	ND	1.2	ρq/L	SW846 0290
1,2,3,7,8-PeCDP	מא	1.2	pg/L	5W.116 3290
2,3,4,7,8-PCCTF	NED NED	1.1	pg/L	SW346 8290
1,2,3,4,7,8-EXCDF		1.1.	pg/L	SW846 8290
2,3,4,€,7,A-HxCDF	ND	1.2	pq/1)	SW346 8290
1,2,3,7,8,9-HXCDP	ND	1.3	pg/L	gw848 8290
1,2,3,4,6,7,8-MpCDF	MD	1.9	pg/L	\$ <b>W</b> 946 9290
1,2,3,7,8-P <del>e</del> CDD	ND	1.8	pa/t	SW846 8290
1,2,3,7,8,9-Hx CCD	ND	3.5	pg/L	3 <b>0</b> 846 8290
1,2,3,4,6,7,8-MPCDD	NO		Fg/L	SW816 #290
1.2.3.6.7.8-HXCDF	NO	0.97 1.6	ba\r	SW846 8290
1,2,5,4,7,8,9-HpCDF	MU	-	99/5	SW046 039D
1,2,3,4,7,8-HXCDD	ND	2.7	pg/L	5%946 8290
1,2,3,6,7,8-HxCDD	ХD	1.8	pg/L	SWB46 8298
Total TCDP	NE	1.2	pα/2	SW\$46 8790
Total PeCDF	MD	1.2		9WB46 8290
Total SkCDF	MD	1.2	pg/L	SW846 8290
Total HpC;:F	NE	1.6	pg/L	SM846 8290
Total TCUD	ND	0.90	pg/6	SH846 0240
Total PeCDD	עמ	1.9	<b>pg/</b> L	SW845 8290
Total HXCDD	MD.	2.3	pg/L	SW846 8290
Total MpCDD	ND	3.5	pg/L	54846 R296
2,3,7,8-TCDD	ND	0.90	pg/4	819816 BZ97
2,2,7,8-TCDF	ЯID	1.2	99/A	Director
	PERCENT	RECOVERY	:	
	RECOVERY	LIMITS		
INTERNAL STANDARDS	<u> </u>	140 - 13	15)	
130-2,3,7,8-7700	94	(40 - 13		
13C-1,2,3,7,8-PcCDD	107	(40 - 13		
13C-1.2,3,6,7,8 HxCDD		(40 - 1)		
13C-1,2,3,4,6,7,8-HPCOD	100	(40 - 1)		
13C-0000	99		95	
±3C-2,2,7,8-TCDF	10B	(40 - 1)		
130-1,2,3,7,8 F#CDF	104	(40 - 1)		
13C-1,2,3,4,7,8-9xCDF	102	(40 - 1)		
13C-1,2,3,4,6,7,8-MPCDF	104	(40 - 1		

# Client Sample ID: 354 OUTFALL COMPOSITE

### GC/MS Bemivolatiles

Lot-Sample #...: E4H113325-004 Work Order #...: GMX481AC Matrix....: WATER

Date Sampled...: 08/10/04 Date Received..: 08/11/04 14:50 MS Num #......

Prep Date....: 69/12/04 Analysis Date..: 05/12/04 Prep Batch N...: 4225334 Analysis Time..: 17:02

Dilution Factor: 1

analyst 10,....: 007050 Instrument ID.:: MSI

Mcthod..... SNB46 B270C

		REPORTING	G-	
PARAMETER	RESULT	TIMIT.	UNITS	ж
N-Nitrosodimethylamine	NT:	20	ug/f.	7.0
Benzidine	ND	20	ug/L	13
1,2-Diphenylhydrazino	ND	.10	ug/L	2.0
(as Azobenzeite)				
Acenaphthene	ND	10	ug/L	3.0
Acenaphthylene	סוא	10	ug/L	2.0
Anthracene	MD	1¢	ug/L	2.9
Benzo (a) anthracene	כיא	10	ug/L	2.0
Henzo(b) floorantheme	בא	10	ug/L	5.0
Benzo(k) iluorantheno	MI)	10	ug/L	5.0
Honzo(ghi)pecylene	MD	10	ug/ъ	2.0
Benzo (al pyrene	NTC.	10	ug/L	2.0
Benzoic acid	NID	aU	ug/5	20
Senzyl alcohol	ND	19	ug/5	5.0
bis(2-Chlorosthoxy)	NID	7.0	ug/L	2.0
methane				
bis(2-Chloroethy1)-	ND	10	$ug/t_i$	3.0
ether				
bis(2-Chloreisopropyl)	ND	14	ug/L	4 . D
ether				
bis(2-Ethylhexyl)	5.9 J	10	սց/ե	4.0
phthalate				
4-Bromophenyl phenyl	ИD	10	ոց/Ե	<b>2.0</b>
ether				
Butyl benzyl phthalate	RTD.	10	ug/L	4.0
Carbazule	ബ	10	nd/r	2:10
4-Chloroaniline	ND	10	ug/L	3.6
4-Chloro-3-methylphenol	ND	1 6	nā/r	2.0
2-Chloronaphthalene	ND	1 <b>0</b>	$\log/L$	2 . D
2-Chlorophenol	N⊃	10	og/L	3.0
4-Chlorophenyl phenyl ether	CK CTK	10	ug/L	2.0
Chrysene	ND	10	աց/Ն	2.0
Dibens(a,h)anthracene	ш	10	աց/ե	5.0
Dibenzofuran	NTD:	10	սց/ն	2.0
Di-o-butyl phthalate	NTD:	10	ոց/ե	5.0
1,2-Dichlorobenzene	ND	10	ոց/ե	3.0
-1			-	

# Client Sample LD: 364 OUTFASE COMPOSITE

# GC/MS Semivolatiles

Lot-Sample #...: E4H110328-004 Work Order #...: GMX481AC Matrix...... WACER

PARAMETER
1,3-Dichlorobenzene ND 10 Ug/L 2.0 1,4-Dichlorobenzene ND 10 Ug/L 3.0 3,3'-Dichlorobenzidine ND 50 Ug/L 5.0 2,4-Dichlorobenzidine ND 10 Ug/L 5.0 Diethyl phthalate ND 10 Ug/L 5.0 Diethyl phthalate ND 10 Ug/L 3.0 Dimethyl phthalate ND 10 Ug/L 3.0 Dimethyl phthalate ND 10 Ug/L 3.0 Ug/
1.4-Dichlorobenzeme ND 10 0g/L 3.0  3.3'-Dichlorobenzidine ND 50 0g/L 5.0  2.4-Dichlorophenol ND 10 0g/L 5.0  Diethyl phthalate ND 10 0g/L 2.0  2.4-Dimethylphenol ND 10 0g/L 3.0  Dimethyl phthalate ND 10 0g/L 3.0  Dimethyl phthalate ND 10 0g/L 3.0  2.4-Dimitro- ND 50 0g/L 1.0  2.4-Dimitrophenol ND 50 0g/L 1.0  2.4-Dimitrophenol ND 10 0g/L 2.0  3.6-Dimitrotoluene ND 10 0g/L 2.0  3.6-Dimitrotoluene ND 10 0g/L 2.0  Di-n-octyl phthalate ND 10 0g/L 2.0  Fluorenthene ND 10 0g/L 2.0  Fluorenthene ND 10 0g/L 2.0  Fluorenthene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0  Hexachlorobenzene ND 10 0g/L 2.0
3.3'-Dichlorobenzidine
2,4-Dicklorophenol
Diethyl phthalate
2,4-nimethylphenol ND 10 ug/L 3.0 Dimethylphenol ND 10 ug/L 3.0 4,6-Dimitro- ND 50 ug/t. 10 2-methylphenol ND 50 ug/L 1, 2,4-Dimitrophenol ND 50 ug/L 2.0 2,4-Dimitrotoluene ND 10 ug/L 2.0 3,6-Dimitrotoluene ND 10 ug/L 2.0 Di-n-octyl phthalate ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Hexachlorobenzene ND 10 ug/L 2.0 Hexachlorobenzene ND 10 ug/L 2.0 Hexachlorocyclopenta- ND 50 ug/L 2.0 Hexachlorocyclopenta- ND 50 ug/L 6.0
Dimethyl phthalate
4,6-Dimitro- ND 50 ug/t. 10  2-methylphono!  2,4-Dimitrophenol ND 50 ug/L 10  2,4-Dimitrotoluene ND 10 ug/L 2.0  2,6-Dimitrotoluene ND 10 ug/L 2.0  Di-n-octyl phthalate ND 10 ug/L 4.0  Fluorenthene ND 10 ug/L 2.0  Fluorene ND 10 ug/L 2.0  Fluorene ND 10 ug/L 2.0  Hexachlorobenzene ND 10 ug/L 2.0  Hexachlorobutadiene ND 10 ug/L 5.0  Hexachlorocyclopenta- ND 50 ug/L 6.0  diene
2-methylphonol 2,4-Dimitrophenol ND 50 mg/L 1,4-Dimitrotoluene ND 10 mg/L 2.0 2,4-Dimitrotoluene ND 10 mg/L 2.0 2,6-Dimitrotoluene ND 10 mg/L 2.0 Di-n-octyl phthalate ND 10 mg/L 4.0 Fluorenthene ND 10 mg/L 2.0 Fluorenthene ND 10 mg/L 2.0 Fluorene ND 10 mg/L 2.0 Hexachlorobenzene ND 10 mg/L 5.0 Hexachlorobutadiene ND 10 mg/L 2.0 Hexachlorocyclopenta- ND 50 mg/L 6.0 diene
2,4-Dimitrophenol ND 50 cg/L 1, 2,4-Dimitrotoluene ND 10 ug/L 2.0 2,6-Dimitrotoluene ND 10 ug/L 2.0 Di-n-octyl phthalate ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluorene ND 10 ug/L 2.0 Hexachlorobanzene ND 10 ug/L 2.0 Hexachlorobutadiene ND 10 ug/L 2.0 Hexachlorocyclopenta- ND 50 ug/L 6.0 diene
2,4-Dinitrotoluene ND 10 ug/L 2.0 2,6-Dinitrotoluene ND 10 ug/L 2.0 Di-n-octyl phthalate ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluoranthene ND 10 ug/L 2.0 Fluorene ND 10 ug/L 2.0 Hexachlorobenzene ND 10 ug/L 5.0 Hexachlorobutadiene ND 10 ug/L 2.0 Hexachlorocyclopenta- ND 50 ug/L 6.0 diene
3,6-Dimitrotoluche
Di-n-octyl phthalate
Fluorentheme
Pluorene
Hexachlorobenzene ND 10 ug/L 5.0 Hexachlorobutadiene ND 10 ug/L 2.0 Hexachlorocyclopenta- ND 50 ug/L 6.0 diene
Hexachlorobutadiene ND 10 ug/L 2.0 Hexachlorocyclopenta- ND 50 ug/L 6.0 diene
Hexachlorocyclopenta- ND 50 ug/L 6.0
diene
Hevachlorogtbane ND 10 ug/L 3.0
Indeno(1,2,3-cu)pyrane
18ophotoite 1-5
2-Nechylan photographic
Z-Mechy I process
3-Mility-Phierrot 4
4-Methylphenol Manbthalene MD 10 ug/L 3.0
(A]
2-Nicrodiffine
1.MIIOGHILLE
4-Nitrodiffine
Micropenzene
2-Microphysica 10
4-Microphenot
N-WICEOSOGY PHONE TO THE TOTAL THE T
W WICEGOOD PIGETI
amine Pertaghlorophenol ND 50 ug/L 10
- (- n n
Phenanchicano
Fileliox
Zyrene
1,2,4-Trichloro- NO 10 ug/L 5.0
benzene
2,4,5-Trichloro- ND 10 ug/L 5.0
Phenol

# Client Sample ID: 364 OUTFALL COMPOSITE

# GC/MS Semivolatiles

Lot-Sample #: B4H110325-004	Work Order 5:	(MX481AC	Matris	WATER
PARAMETER	RESULT	Reporting Limit 10	UNITS ug/L	MDG 2.0
SURROGATS  2-Fluorobiphenyl  2-Fluorophenol  2,4,6-Tribrocophenol  Nitrobonzene-d5 Phenol-d5 Terphonyl-d14	PERCENT  RECOVERY  63  43  78  64.  28  84	RECOVERY LIMITS (45 110) (10 - 75 ) (30 125) (40 - 110) (10 - 60 ) (25 - 125)		
NOTE(S):				<del>.</del>

I Estimated revult Report to less than S.L.

### Southern California Edison (respeny

# Client Sample ID: 364 OUTFALL COMPOSITE

# Trace Level Organic Compounds

Lot-Sample \$...: E48110125-004 Work Order \$...: GMX481AA Matrix......: WATER

Date Sampled...: 06/10/04 | Date Received..: 08/11/04 14:50 MB Num #......

Prep Batch #...: 4230179 Analysis Time..: 02:24

Dilution Factor: 1

Analyst ID....: 602457 Instrument ID..: 805

Analyse 10: 602457	THREE COMPANY IN	J T O(/>		
FARAMETER	PESULT	DETECTIO L1MIT	N UNITS	METHOD
1,2,3,7,8-PeCDF	NT:	1.6	pg/1.	2W846 8290
2,3,4,7,8-PeCDP	MD	1.6	pg/L	5W846 8290
1,2,3,4,7,8-2xCDF	MD	1.3	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	. ND	1.3	pg/t.	SW846 8290
1,2,3,7,8,9-HxCDF	NID	1.5	pg/L	SW346 B290
1,2,3,4,6,7,8-MpCDF	NID	1.8	59/교	5W846 8290
1,2,3,7,8-PecDD	ND	2.3	pg/L	SWB46 0290
1,2,3,7,8,9-H±CDD	ND	2.3	pg/L	5₩84€ 9290
1,2,3,4,6,7,8-HpCDD	ND	6.8	pg/L	5 <b>68</b> 46 <b>829</b> 0
1,2,3,6,7,8-HXCDF	ND	1.2	րց/և	SWB46 8290
1,2,5,4,7,8,9-нрОПИ	NO.	2.3	րց/ե	S <b>W846</b> AX9U
1,2,3,4,7,8-HRCDD	<b>I</b> ⇔	2.7	pg/L	2 <b>W84</b> 6 <b>829</b> 0
1,2,3,6,7,6-0xCDD	ND	2.2	Pg/L	5%846 8%90
Total TCDF	KD	1.5	pg/L	<b>SW84</b> 6 <b>82</b> 90
Total PeCDF	NTC:	1.6	pg/L	SW846 8298
Total ExCDF	MD	7.5	pg/L	<b>51494</b> 6 8290
Total HpCDF	NE	2.3	pg/L	SW846 B290
Total TCDD	MC	1.2	pg/L	SW846 8290
Total PeCDD	ND	2.3	pg/L	5WB46 B290
Total NeCDD	NID	2.7	pg/t.	SW846 0290
Total SpCDD	NID	5, a	ըց/ն	5 <b>%84</b> \$ 8290
2,3,7,8-TCDD	ND	1.2	pq/5	9 <b>46</b> 46 9290
2,3.7,8-TCDF	ND	ι, <del>ξ</del>	pg/r	5₩846 <b>\$</b> 290
	PSRCENT	RECOVERY	<b>?</b>	
INTERNAL STANDARDS	RECOVERY	LIMITS		
13C-2,3,7,8-TCDD	94	(40 - 13	35)	
13C 1,2.3,7,8-PecDD	Rā	(40 - 13	35)	
13C-1,2,3,6,7,8-HXCDD	107	(40 %	35)	
13C-1.2.3.4.6.7.8-96COD	91	(40 - 1)	45)	

	PSRLEAT	RECOVERS
INTERNAL STANDARDS	4DARDS RECOVERY	
13C-2,3,7,8-TCDD	94	(40 - 135)
13C 1,2.3,7,8-PecDD	R⊼	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	157	(40 135)
13C-1,2,3,4,6,7,8-MpCDD	91	(40 - 135)
130-0000	86	(40 - 135)
13C-2,3,7,8-TCDF	301	(40 - 135)
13C-1,2,3,7,8-PeCDF	98	(40 - 135)
15C-1,2,3,4,7,9-ExCDF	117	(40 - 135)
13C-1,2,3,4,6,7,8 HpCDF	100	(40 - 135)



# QA/QC

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# QC DATA ASSOCIATION SUMMARY

# E49110325

# Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	<u>eatch</u>	PRBP BATCH #	MS RUM
001	WATER	S#846 8290		4230179	
	MATER	SW846 927DC		4225034	
002	WATER	SW846 829U		4230179	
0.7	WATSR	SW846 R270C		4225334	
003	WATER	SW846 8290		4230179	
403	WATER	SW846 9270C		4025334	
004	WATER	SW846 8290		4230179	
044	WATER	8 <b>₩946</b> 82700		4225334	

### METHOD BLANK REPORT

### GC/MB Semivolatiles

Client Lot #...: E4H110325

Work Order #...: GM) PSIAA

Matrix ..... WATER

MB Lot-Bample #: E4H120000-334

Prep Date.....: 28/12/04

Analysis Time..: 13:55

Amalysis Date..: 06/12/04

Prep Batch #...: 4225334

Lastroment ID..: MSI

Dilution Factor: 1

Analyst ID....: 007050

REPORTING

		26241 6210 1 2		
PAKAMETER	RESULT	LIMIT	UNITS	METHOD
Benzidine	MC-	30	ug/1.	SW846 8270C
N-Nitrosofimethylamine	ND	20	ug/L	SW846 ∂270¢
1,2-Diphenylhydrazine	ND	20	ug/L	SW846 9270C
(aa Azobenzene)				
Acenaphthene	<b>N</b> D	10	ag/L	SW846 8270C
Acemaphthylene	NID)	10	ug/L	SW846 8270C
Anthracene	ND	10	J/PC	9 <b>₩84</b> 6 8270C
Benzo (a) antimacene	ND	10	աց/և	SW946 8270C
Benzo (b) fluoranthene	ND	10	ug/L	5 <b>864</b> 6 <b>8</b> 2700
Benzo(k)fluoranthene	ND	10	ug/l	SW846 8270C
Benzo (ghi) perylene	KTX	10	119/L	9 <b>%8</b> 46 8270C
Benze(a)pyrene	ND	10	ug/L	8 <b>W81</b> 6 <b>82</b> 700
Benzoic acid	ND	50	ug/L	SW846 82700
Benzyi alcohol	ND	16	ug/L	SW846 8270C
<pre>bis(2-Chloreethoxy)   methane</pre>	ND	10	ug/L	<b>SW01</b> G <b>8270</b> C
bis(2-Chloreethyl)-	NID	10	ug/L	8 <b>W\$46</b> 8270C
his(2-Chloreisopropy1) ether	ND	10	ug/L	SW846 6270C
bis(2 %thylhexyl) phthalate	NTO	10	ωg/τ.	SW846 B270C
4-Bromophecyl phanyl ether	ND CM	10	υg/5	SW846 8270C
Buryl benzyl pothalate	NTD	10	ug/L	≲₩8 <b>4</b> 6 <b>8270</b> €
Carhazole	ND	10	սց/Ն	S0846 8270C
4-Chlorcaniline	ND	1,0	ug/L	SW846 %270C
4-Chloro-3-methylphenol	<b>M</b> D3	10	ug/L	\$W946 B270C
2-Chloronaphtholene	NID:	10	սց/Ն	SW846 8270C
2-Chlorophecol	ND	10	ug/L	SW846 82740
4-Chlorophenyl phonyl ether	ND	10	ug/L	SN846 8270C
Chrysene	MD	10	ug/L	<b>SW816 8270</b> C
Dibenz(a.h)anthracene	ND	10	ug/L	SW846 6270C
Dibenzoiuran	ND	10	ug/L	SW846 83700
Di-m-butyl phthalate	ND	10	աց/ն	\$W\$46 \$270C
1,2-Dichlorobensene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobessene	NID	10	ug/L	SW846 B270C
3,3'-Dichlorobenzidine	ND	50	ւլց/ե	SW846 B270C
3,10-bichtorsbenziaine	ND	90	rig/ G	3M340 D2770

# NEJECO BYVNK KREOKA

# GC/MS Semivolatiles

Client Lot #...: FAM110325 work Order #...: GM1F51AA MALTIX...... WATER

		REPORTIN	ec.	omuAF		
	aegult	LIMET	S <u>T1KI</u> J	METHOD		
PARAMETER	ND	30	ug/L	SW846 8270C		
2,4-bichlorophenol	ND	10	աց/ա	SW946 9270C		
DieLny) phthalatt	ND	20	ug/L	9W645 8270C		
2.4 pimethylphenol	ND	10	იც/Ъ	SW846 82700		
Dimethyl phrhalate		50	ug/7/	59845 6279C		
4,6-Dimitro-	ND	•		<b>-</b>		
2-methylpheno1		50	ug/L	5W846 1270C		
2,e-Dimitrophenol	MD:	10	ug/L	SW646 82790		
2,4-Dimitrotoluene	ND NO	. 10	ոց/հ	<b>≲₩</b> 946 8270€		
2.6-Dimitrotoluone	MD 	10	ag/L	SW846 B273C		
Di-m-octyl phthalate	ND	10	աց/ե	5 <b>0846</b> 82700		
Pluoranthene	ינוא	10	eg/L	SM846 #270C		
Fluctene	ND	10	աց/Ն	SW246 #2700		
Hexachlorobenzene	M-1	10	ug/L	<u>9</u> ₩946 ]270€		
Hexachlorobutadiene	ND	50	ug/L	SW646 3270C		
Kexachlorocynlopenta-	ND	70	-31 -			
diane			սց/Ն	SW646 8270C		
Mexachloroethane	ND	10	աց/ե	5WA46 8270€		
Indeno(1,2,3-cd)pyrene	נדאַ	10	ագ/ <b>Ն</b>	9WB46 827JC		
творногопе	ND	10	ug/L	SW846 8270C		
2-Methylmaphthalenc	ND	10	ug/L	SW946 8270C		
2-Methylphonol	NTA	10	ug/L	SMB46 0270C		
3-Methylphenol &	NID.	10	9 <b>9</b> /10	211712		
4-Methylphenol			/T	9WB46 8270C		
Naphthalens	ND	10	ug/L	\$W846 8270C		
2-Nitroamiline	ND	50	ug/L	SW#46 8270C		
	ND	50	шg/Т-	SW845 H270C		
3.Mitroaniline	พบ	50	ug/L	gw846 \$2700		
4-Nitroamilide Nitrobenzen⊄	ND CO	10	09/L	SM846 B270C		
	ND	10	ագ/L	SW846 8270C		
2-Nitrophenol	MD	Σů	ug/L	SW846 8770C		
4-Nitrophenol	ND	10	ug/t/	5₩846 827DC		
N-witrosodiphonylamine	ND	10	ug/2	20040 05 10C		
M-Nitrosodi-n.propyl-			4.	SW846 827D€		
amine	ZID	50	սց/և	5%846 8270C		
Pentachlorophenol	TVL:	10	սց/1	SW846 8270C		
phenam(hrone	ND	10	og/L	SW844 02700		
Phenol	טוא	10	$_{ m ug}/{ m L}$	5W946 #270C		
gyrenc	ND	13	ug/L	8WB46 B270C		
1,2,4-Trichloro-	- Later					
реплене	ND	10	ug/1.	50946 <b>82</b> 700		
2,4,8-Trachloro-	617					
phenol		10	ug/L	<b>5W846 8270</b> C		
2,4,6 Trichloro-	知コ		•			
phenol						

# METROD SLANK REPORT

# GC/MS Semivolatiles

Matrix..... MATER Work Order #...: GM1951AA Client Lot # .... EdW110325 REPORTING LIMIT UNITS METHOD RESULT PARAMSTER \_\_\_\_\_\_\_ RECOVERY PERCENT <u>LIMITS</u> recov<u>ery</u> STRROGATE (45 - 110)65 2-Fluorobiphenyl (10 - 75) 38 2-Fluorophenol (30 - 125)86 Z,4,5-Tribromophenol (40 - 110)65 Mitrobenzene-d5 [10 - 60] 23 Phenol-d5 (35 - 125). 94 rerphenyl-d14

WATE (S):

Calculation and performed helpine counting to pupil results on energy to calculated results.

### METROD BLANK REPORT

# Trace Level Organic Compounds

Client Lot #: E48110325	Work Order #-	GW925TVV	Matrix WATER
MB Lot-Sample #: C49170000-179	rrep Datc	: 08/17/04	Analysis Time: 19:26
00/27/41	Prep Match #.	4230179	Instrument ID: 805
Analysis Date: 08/17/04	Pieb micen 4.	4	
Dilution Factor: 1	Analyst LD	002457	
	100A1,300		
		DETROTION	
PARAMETER	RESCAT	T. TWITE CINIT'I	SMBYHOD
1,2,3,7,8-FeCDE	ND	3.0 pg/2	SW846 B290
2,3,4,7,8 PCCDF	NID	1.0 pg/L	
1,2,3,4,7,8-HxCDF	ND	0.93 pg/L	
	פא	0.91 pg/t	
2,3,4,6,7,8-HXCDF 1,2,3,7,8,9-HXCDF	פֿא	1.0 pg/L	
	ND	2.8 pg/:	
1,2,3,4,6,7,8-HpCDF	NT:	1.1 pg/I	
Total TCDF	ND	1.0 pg/I	
Total PerDP	ND	1.0 pg/L	
Total ExCDP	ND	2.4 pg/I	
Total HpCDF	ND ND	p.88 pg/L	
Total TCUD	בא	1.8 pg/1	
rotal SeCDD	ND	1.8 99/1	
1,2,3,7,6-PeCDD	NI)	1.9 pg/I	
Total EXCOD	NTD	1.6 pg/1	
1,2,3,7,8,9-HxCDD		5.9 pg/1	
Total Epupo	ND	5.9 pg/-	
1,2,3,4,6,7,5-EPCDD	ND	D.83 pg/3	
1.2,3,6,7,8-HxCDP	NU	1.5 pg/:	
1,2,3,4,7,8,9-HpCDF	NT)	1.9 pg/	
1,2,3,4,7,8-HHCDD	KD.	1.5 pg/1	
1,2,3,6,7,8-MXCDD	ND		_
2,3,7,8-TCDD	ND)	ე,88 pg/I 1.1 pg/I	
2,3,7,8 TCDF	MD.	1., 597.	2
	25KCSMT	RECOVERY	
INTERNAL 5TANDARDS	RECOVERY	<u>SIM THS</u>	
13C-2,3,7,8 1/CDD	56	(40 + 135)	
13C-1,2,3,7,8-PeCDD	96	(40 - 135)	
13C-1,2,3,6,7,8:HxCDD	99	(40 - 135)	
13C-1,2,3,4,6,7,9-UPCDD	103	(40 - 135)	
13C-0CDD	112	(40 - 135)	
13C-2,3,7,8-TCDF	102	140 135}	
		4-4	

ROTE (6):

13C-1,2,3,7,8-PeCDF

13C-1,2,3,4,7,8-HxCDP

132-1,2,3,4,6,7,8-HPCDF

102

90

100

(40 - 135)

(40 - 135)

(40 - 135)

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

# GC/MS Semiyolatiles

	CC) NB Sear					
		, composited	LCS	Mairix.		. WATER
Client Lot #: 34H110325		GM1P51AC GM1P51AD				
LCS Lot-sample#: BASS 20000-334						
Prep Date 08/13/04		e1 09/12/04				
prep Batch #: 4225334	analysis Tim	MG: 10:20				
ullution Factor: 1	Instrument I	D., i Mai				
Analyst ID: 007050						
What her In			19	PD OU		
	\$KKCZKC	RECEVERY	-	.IMJ™S	м <u>гунс</u> о_	_— —
PARAMETER — ———	RECUVERY	TI T. 17 F F T T T T T T T T T T T T T T T T T	~ <u>**</u>		FW846 B	
Accusphane	89	(50 - 100)	3.6	(0-39)	SM846 B	270C
<b>УСЕЛИБИСТЕЛ</b> Е	96	[50	3.0		SM\$46 8	270C
4-Chloro-3-methylphenol	89	(45 - 95)	2.2	(p-30)	5MB46 8	5.1 <b>0</b> C
4-CR1010-3-12:CD/	91	1	<b></b> .		#W846 8	
_ 1	70	(45 - 95)	0.65	(0-30)	SW846 8	
z-Chlorophenol	70	, · - · - · ·	U,63	10 20,	5W846 8	
1 - b I browen	65	(35 - 95)		(0-30)	5N846 8	
1,4-Dichlorubenzenn	61	(35 - 95)	5.6	(6-24)	BW846 B	
_, ,,_,,,,	96	(50 - 115)		(0-30)	SM846 8	
2,4-Dimitrotoluene	96	(50 - 115)	0.51	(0-50)	3N846 6	270□
	33	(20 - 50)		(p-30)	SMB46	1270C
4 mitrophenol	37	(10 - 50)	11	(0-20)	SWB46	1270C
	79	(40 - 110)			3 <b>#</b> 070	
g-mitrosodi-u-propyl-				1	S <b>M</b> 946	82 <b>70</b> C
amine	83	(40 - 110)	4.9	[0:30)	S#0***	
	63				SM846	4270C
	102	(40 - 170)				
Pentachlorophenol	107	(4D - 110)	4.0	(0-30)	9W846	9670C
	31	(10 - 50)				
Phenol		(10 - 50)	5.4	(0-30)	gw84.6	
	32	(50 - 120)			BMB#6	47.10C
Pyrene	95	(50 - 120)	0.44	(0 30)	SW846	8270C
	94 68	(35 - 105)			<b>BW#46</b>	8270C
1,2,4-Trichloro-	00	•		_		04700
<u>ben</u> zenê		(35 - 105)	2.9	(0-30)	SMB45	8270C
	66	•				
		PRRCENT	RREAD			
		RECOVERY	<u>LMI</u>	7 <u>9</u>		
SURROGATE		B.6	(45	- 110)		
2-Fluorobipheny)		92		- 110)		
		45	(10	- 75)		
2-Floorophenel		47	(10	- 75)		
		99	(30	- 125)		
2,4,6-Tribromophenul		99	(30	- 125)		
		75	(40	- 110)		
Mitrobenzenc-d5		/≄ 76		- 110}		
M_0.000		-		- 60)		
Phenol-d5		28	710	- 60)		
Alluston, tra		30	110			

# LARGEATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Semivolatiles

Client Lot #...: E4E110325 Work Order #...: GM1P51AC-LCS Matrix..... WATER

LCS Lot-Bample#: F49120000-334 GMlP51AD-LCSD

MOTE (S):

Calculations are performed before rounding to avail cound-off errors in calculated rebuts.

Bake year degrees control parameters.

### TARGRATORY CONTROL SAMPLE DATA REPORT

# GC/MS Semivolatiles

Client Lot #...: E4K110325 Work Order #...: GM1951AC-LCS Matrix...... WATER

LCS Lot Eample#: EAM120000 334 GRIP51AD-LCSD

 Prep Date.....:
 08/12/04
 Analysis Date..:
 08/12/04

 Prep Batch #...:
 4225334
 Analysis Time..:
 14:26

 Dilution Factor:
 1
 Instrument 1D...:
 MSI

Analyst ID..... 007050

	SPIKE	MEASURED	)	PERCENT		
PARAMETER	AMCONT	AMOUNT	UNITS	BK(X)VERY	RPD	METHOD
Acenaphthene	100	89.0	աց/և	89		9M846 8270C
_	100	85.9	ug/L	B6	3.6	SN846 H270C
4-Chloro-3-methylphenol	100	89.1	<b>v</b> g/τ.	89		\$M\$46 8270C
	100	91.1	ug/L	91.	2.2	SW846 8770C
2-Chlorophenol	100	69.8	ug/G	70		5 <b>8446 8270</b> C
_	100	70.2	ug/L	70	0.65	8W846 B270C
1,4-Dichlorobenzene	100	64.9	ug/L	65		SW846 0270C
-	100	61.3	աց/ե	61	5.6	SW846 8270C
2,4-Dimitrotologue	100	95.0	սց/ն	96		8W846 8270C
	100	95.4	ug/L	95	D.51	S#846 8270C
4-Mitrophemol	160	33.3	ug/L	33		5W846 8270C
-	100	37.1	ug/L	37	11	SH846 8270C
M-Mitrosodi-a-propyl-	160	79.4	ug/L	79		SN846 8270C
amine			•			
	100	83.3	ug/L	83	4.9	SW646 8270C
Pentachlorophenol	100	102	ug/L	102		EW846 8270C
•	100	107	ug/L	107	4.0	SW846 8270C
Phenoi	100	30.5	og/t.	31		SW846 8270C
	100	32.2	$ug/t_i$	32	5.4	BW946 8270C
Pyrene	100	94.8	սց/Ն	95		5W846 8270C
-	100	94.4	ug/L	94	0.44	SM846 8270C
1,2,4-Trichloro- benzene	100	68.3	ug/L	6.8		SM846 8270C
Deliaene	100	66.3	ug/L	56	2.9	SN846 8270C

	FERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
2-Piucrobiphenyl	86	[45 - 110)
	82	(45 - 110)
2-Fluorophenol	45	IO - 75)
	47	[10 - 75]
2,4,6-Tribromophenol	99	(30 - 125)
	99	(30 - 125)
Nitrobenzene ds	75	(40 - 110)
	76	(40 - 110)
Phenol-d5	28	(10 - 60)
	30	(10 - 60)

# LABORATORY CONTROL SAMPLE DATA REPORT

# GC/MS Semivolatiles

Client Lot ‡: LCS Lot-Sample#:			IAC LCS IAD-LCSE	Matrix	WATER
SURROGATE Terphenyl-dl4		PERCENT RECOVERY B7 \$8	RECOVER <u>                                      </u>	25)	

MOTE(S):

Calculations are performed before rounding to sainst mand-old errors in calculated results.

Build print Jenous control parameters

# LABORATORY CONTROL BAMPIN RVALUATION REPORT

# Trace Level Organic Compounds

Client Lot #: E48110325 Work Order #	; GM9211AC	Matrix:	YATRO
--------------------------------------	------------	---------	-------

LCS rai-Bample#: G48170003-179

Prep Date....: 08/17/04 Analysis Date..: 08/17/04
Prep Batch F...: 4230179 Analysis Time..: 20:08
Dilution Factor: 1 Instrument ID..: 8D5

Analyst TD.,.... 002457

	PERCENT	RECOVERY	
PARAMETER	<b>SECONKKA</b>	LIMITS	<u>method</u>
1,2,3,7,8-PeCDD	105	(65 141)	\$W846 B290
1,2,3,4,7,8 HxCDD	91	(54 - 147)	5W846 BZ90
1,2,3,6,7,9-9xCDD	120	(70 - 133]	SW846 8290
1,2,3,7,8,9 RXCXD	105	$\{68 - 147\}$	SW846 B290
1,2,3,4,6,7,8-RpCDD	113	(75 130)	8 <b>0846 82</b> 90
1,2,3,7,8-PeCDF	109	(77 131)	SW846 8290
2,3,4,7,8-PecDP	102	(65 - 137)	SMB66 8290
1,2,3,4,7,6-HXCDF	117	(75 - 231)	8W846 B290
1,2,3,5,7,8 HICH	129	(69 - 161)	SW846 8290
2,3,4,5,7,8-HxCDP	123	<b>(68 - 1</b> 70)	9N846 8290
1,2,3,7,8,9-RMCDF	110	(65 - <b>1</b> 58)	SW846 8290
1,2,3,4,6,7,8-8pCOF	111	(77 - 129)	5M846 3290
1,2,3,4,7,8,9-RpCDP	116	(69 - 139)	SM046 0390
2,3,7,8-TCDD	101	[72 - 137]	SW846 8290
2.3,7,8-1 <b>(1</b> )F	108	(67 - 140)	SM846 8290
OCED	112	(78 - 127)	SW846 8290
CKEDY	119	(67 - 140)	SW846 8290

	PERCENT	RECOVERY
INTERNAL STANDARD	YECOVERY	LIMTTS
13C-2,3,7,8-TCDD	96	(40 - 135)
13C-1,2,3,7,8 FeCDD	97	[40 - 135)
13C-1,2,3,6,7,8-HXCDD	207	(40 - 135)
13C-1,2,3,4,6,7,8-HPCDD	98	(40 - 135)
130-0000	99	(40 - 1.35)
13C-2,3,7,8-TCDF	106	(40 - 135)
13C-1,2,3,7,6-Perms	107	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	104	(40 - 135)
13C-1,2,3,4,6,7,8 HpCDF	102	(40 - 135)

### мутк (а) :

Catastations are performed before rougions to avoid round-off critics in calculated results.

Bold point denotes courto, parameters

# LABORATORY CUSTROL SAMPLE DAYA SHECKT

# Trace Level Organic Compounds

Matrix..... WATTR Work Order 8...: GM9211AC Client Lot #.... 94H110325

ICS Lot-SampleB: G4H170000-179

analysis Date..: 08/17/04 prep mate....: 03/17/04 Analysis Time..: 20:03 Prep Batch #...: 4230)79 Instrument ID. . 205 Dilution Factor: 1

Analyst ID....: 002457

PARAMETER  1,2,3,7,8-PeCDD  1,2,3,4,7,8-ExCDD  1,2,3,4,6,7,8-ExCDD  1,2,3,4,6,7,8-PeCDF  2,3,4,7,8-PeCDF  2,3,4,7,8-PeCDF  1,2,3,6,7,8-ExCDF  1,2,3,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  1,2,3,4,6,7,8-ExCDF  2,3,7,8,7-ExCDF  2,3,7,8-TCDF  OCDD  OCDD	SPIKE AMOUNT 1000 1000 1000 1000 1000 1000 1000 10	MEASURED  AMOUNT  1050  909  1100  1050  1130  1090  1200  1170  1290  1230  1100  1110  1160  202  216  2230  2390	08178 99/L 99/L 99/L 99/L 99/L 99/L 99/L 99/L 99/L 99/L 99/L 99/L	PSRCKNT - RECOVERY 105 91 110 105 113 109 102 117 129 123 110 111 116 101 108 112 119	SW846 8290 SW846 8290
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INTERNAL STANDARD  13C 2.3.7.8-TCDD  13C-1.2.3.7.8-PeCDD  13C-1.2.3.6.7.8-HxCDD  13C-1.2.3.4.6.7.8-HxCDD  13C-2.3.7.8-TCDF  13C-2.3.7.8-TCDF  13C-1.2.3.7.8-PeCDF  13C-1.2.3.4.7.8-HxCDF  13C-1.2.3.4.7.8-HxCDF	PERCENT  RECOVERY  96  97  107  98  99  106  107  104  102	RECOVERY  140 - 135) (40 - 135) (40 - 135) (40 - 135) (40 - 135) (40 - 135) (40 - 135) (40 - 135) (40 - 135) (40 - 135)
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Calculations are performed before rounding to avail 4 ound-off ormers in calculated results

Bold pines depoise control paperioters



MAIL REPORT AND ONE COPY OF INVOICE TO:

Attus: Stawn Stamous Southern Collington Katson 7301 Fermick Lasts, 2<sup>rd</sup> Boor Westminster, CA 92683 MAIL ORIGINAL AND ONE COPY OF INVOICE TO:

Southwes California Editori Accounts Psychic Hiviston P.O. Box 700 Resembni, CA 21770

# SAMPLE ANALYSIS MEMORANDUM TO:

Severn Trent I aboratories (SVL) 1721 South Grand Avenue Santa Ana. CA 92705

<u> </u>	Distant.	,		
Southern Calif. Edison P.O. Number:	V203	3901		1220-6358-097,097
Please return and direct inquires to:		200008	Tel: (714) 895-0525	Fax: (714) 895-0515
lo all correspondence refer to project:	04	121	Email: shawn.simmons	@sce.com
Sample(s) are submitted for treatment				···· ·
Sample ID	Date Collected	Time Collected	Description/Analytes	
1&2 Intake Composite	8/09 to 8/10	l	FPA 8270C, see attached	list for required cpds
1&2 Outfall Composite	8/09 to <u>8/10</u>	Ľ.	EPA 8270C, see attached	list for required cpds.
3&4 Intake Composite	8/09 to 8/10		EPA 8270C, see attached	list for required cpds.
3&4 Outfall Composite	8/09 to 8/10		EPA 8270C, see attached	list for required epds.
1&2 Intake Composite	8/09 to 8/10		TCDD Full-Screen by El	
1&2 Outfall Composite	8/09 to 8/10		TCDD Full-Screen by El	
3&4 Intake Composite	8/09 to 8/10		TCDD Full-Screen by El	
3&4 Ourfall Composite	8/09 to 8/10	i :	TCDD Full-Screen by El	A 8290
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PROJECT PECEIPT CHECKLIST Date: 0844
STL LOS ANGELES - PROJECT RECEIT 1 312
Quote #_ 53770 \
Cluent Name: See Project: Our least 0
Received by: Date/Time Received: DX MAP
1 STACKER STATE Airborne Fed Ex LICES LICES LICES
1
Broken None
Custody Seal Status Cooler:
Custody Seal #(s):
Custody Seal #(s):
Sample: Signature on COC   TO   Lines   No.   No
Temperature - BLANK 2 Sec -1.0-605 - 8- 40.000 - 300 -
Temperature - BLANK 2 . S_°C - ***. Q. Q. S - Q. S
Temperature - COOLER (°C°C°C°C°C Yes
Temperature = COOLER ( *C
One COC/Multiple coolers: Yes-# coolers All wight: strip class
One or more poplers with an anomaly: Yes - (fill out PRC for each)
Samples:   Intact   Broken   Other        We would be a completed of the NCM   Other          We would be a completed of the NCM   Other
( em / E - her bod note for lab and file NV (*)
Assemblies: To Yes - complete CUR and Create NCM NCM #
Complete shipment received in good condition with correct temperatures, containers, labels, volumes  preservatives and within method specified holding times.
Taisming checked
Labeled by:
Turn Around l'inte: RUSH-24HR RUSH-48HR RUSH-72HR ROSH-72HR RUSH-72HR ROSH - 1 31/2 HI expred.
Turn Around Fine:RUSH-244tk
Short-Hold Notification: pit wer Cheft was 5
Outside Analysis(es) (Test/Lab/Date Sent Out):
- 6240 SAC 3-42-04
Headspace Anomaly ANIA BOOK MALL
Lub (D Container(s) # Headspace
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		T. Terracite
	Port P9: Poly Borde, C03: Clear Glass Burdle, AGI, Amber GM	sediam thresulfale
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VGA with newhylacerouthrics
 HGLL S. 925G4, N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass (ac., Tr Terrocote H. HCLL S. 925G4, N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass Burtle, N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass Burtle, N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass (ac., N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass (ac., N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass (ac., N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass (ac., N. HNO3, V. VQA, St., Skeve, S., Entore, 98: Poly Bortle, CG3: Clear Glass Burtle, AGJ, Amour Glass (ac., N. HNO3, V. VQA, St., Skeve, St., Entore, Skeve, St., Skeve, Skeve, St., Skeve, Skeve, Skeve, Skeve, Skeve, Sk

OOLERS Not Received (Feedinest COC only) Leaking	Receipt Anomaly Form  COSTODY SEALS (COOLE)  None  None  Not reliable: CHAIN OF CHSTODY (CO) Not reliable and	Sus) CONTAINER
Diber:  [EMPERATURE (SYECS 4 ± 2°C) [Cooler Temples]  Temperature Blankly)  CONTAINERS  Leakson  Extra  Without Labets  Other:  SAMPLES  Samples NOT RECEIVED but listed on COC  Samples received but NOT LISTED on COC  Longed based on Labet Information  Longed based on info from other samples on COC  Longed based on info from other samples on COC  Longed based on Information  Longed based on Information  Longed based on Information  Longed based on Information  Longed based on Information  Longed based on Information	Not refingurated by Charles and Layout plate information produced to the same I Driefo as in I promplete Information Markings Info illegible Torn  Will be assed on COC - Complete to the same in COC - Complete to the same in COC - Complete to the same in COC - Complete to the same in COC - Complete in Coc - Complete in Coc - Coc - Complete in Coc - Coc	Tient to send samples with new COC  secretives, etc.  preservative used  to preservative used  to preserve sample and ducament  to to preserve sample and ducament
Corrective Action Implemented:  Client Informed: vertually on	By:	PM Review/Date: kar 8 (2)

255 Van Ness Ave Suite 195 Terrance, CA 90501 • (310) 320-3211 • Fee (310) 320-1276 • (matys:@grglebs.com

August 16/2004

TO: Shawn Simmons

Power Production Chemical Southern California Edison 7301 Ferwick Lane, 2<sup>rd</sup> Floor Westminster, CA 97683

Rc: August 10, 2004 Samples

CRAG-EMS Project ID, M0419a

CRG Laboratories, line, is pleased to provide you with the enclosed analytical data report for August 10, 2004 water samples

Thirty six samples were received and analyzed for the following constituents:

- Total coliform bacteria by Multiple Tube Fernicipalities, MPN method (SM 9221B)
- Fecal coliform bactona by Multiple Tube Permentation, MPN method (SM 9221E).

Please let me know if you have any questions and thank you for using CRG-Environmental Microbiology Services.

Sincerely

Moy Yahya Jaboraton Manager

Attachment: Microbiology Results



Southern California Edison Material Testing Laboratory 7351 Fenwick Lane Westminster, CA 92683

Аптопа

Surfactorits

Total Keldahl Nitrogen

Carbon, Total Organic

Ricchamical Doygen Demand

Chemical Oxygen Gement

Prospharus, Fotal

Date Received: Work Order No: 08/11/04

04-08-0549

88/12/04

88/13/04

08/21/04

**0.031198** 

0643/04

08/11/04

08/11/04

EPA 350.2

EPA 351.3

LPA 385.3

EPA 405 1

FPA 410.4

EPA 4151

EPA 425 1

Project: 04121								Page 8 of 3
Clien; Sample Number		• • • • • • • • • • • • • • • • • • • •	Leb Sample Num	bor Da Colle		Metrix		
3&4 Outfall			04-08-0549-36	084	0/04 /	Aqueous		
Parameter	Fesull	βL	D+	Qual	Unds	Oale Precared	Date Analyzed	Meltical
Cyanide, Total Phenolics, Tota	ND ND	0.050 Ç 10	:		ածք ածք	N/A N/A	08/17/04 09/18/04	EPA 335 Z EPA 420.1
1&2 Intake Composits		•	04-06-0549-37	0671	0.04	queous	<u>-</u>	
о <sub>д г</sub> атнете <u>с</u>	Result	RI.	DE	<u>Cual</u>	Holls	Qate Prepared	Date Analysist	(Ve)PG0
-luonde	0.29	0 10			mg/.	N/A	39/19/04	EPA 340.2
Ammong	ND	0.10			mg/_	N/A	394.2/04	EPA 350.2
Tçial Kıaktah Nilrogen	ND	0.59			mg/L	N/A	39/13/04	FPA 351.3
Phosphorus, Total	1.1	0.2	2	υ	mg/L	08/20/04	38/21/04	EPA 385.3
Boshamical Oxygen Demand	ND	10			mg/L	95/11/94	08/16/04	EPA 405.1
Chemical Oxygen Deniand	58	5			mg/L	N/A	38/13/04	EPA 410,4
Cartion, Total Organic	6.8	50	10	D	mg/.	N/A	30/17/04	EPA 415.1
Surfaciants	0.14	0.10			mg/L	N/A	3R411/E4	EPA 425.1
18.2 Outland Composite			04-08-0549-38	<b>C48</b> /1	Q104 A	Афиюния.		
Parametar	₹65 <b>.</b> #	RL	D=	CODE	Unis	<u>Date Prepared</u>	Date Answeed	<u>Weineg</u>
Парііде	0.30	0 17	1		mg/L	N/A	08/19/04	EPA 340 2
		5.45				•••	00/2004	EDA SEC C

Ю

0.56

0.30

NEU

55

44

0.15

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0.10

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שברי

mg/L mg/L

mg/L

MA

MA

NA

N/A

N/A

38/20/04

JB/11/04



Southern California Edison Material Testing Laboratory 7351 Fenwick Lane

Date Received: Work Order No:

08/11/04

04-08-0549

Westminster, CA 92683

Project, 04121

Page 9 of 10

<u>Clien Sample N</u> umber			Lab Sample Neim		ale eded	Mainx		
354 Intake Composite			04-08-0549-39	0811	0/04 A	циеска		
<u> Рагагиете</u> г	Resul	<u>r:</u>	<u>ps</u>	<u> 2.14</u>	Unds	Date Prepared	Dala Analyzed	<u>Metro</u> e
Fluoride	0.22	0.10			ացմե	N/A	08/19/04	EPA 340.2
Ammonia	ND	0 10	-		mgl	WA.	09/17/04	EPA 357.7
folal Kjeldahi Nerogen	G.56	0.50	•		mg:1	N/A	08/13/04	EPA 361 3
тохросп,а, Трум	ND	0.50	1		mg·L	08/2004	08/21/94	FPA 365 3
Hochenical Oxygen Demand	ND	1.5	1		mgiL	08/31/04	(8/16/04	FPA 405 1
Pemiss Oxygen Demand	56	5	1		rigiL	N/A	08/13/04	EPA 010.4
aroon, Total Organic	93	5.0	18	Э	mg/L	N/A	08/17/04	EPA 415 *
Surfactants	t 15	0.10	1	-	re"	N/A	UR**##4	EPA 425 1

384 Outfall Composite			(u-08-0549-40	40 08/10/04 Aqueous				
Farsm <u>eter</u>	<u>Resuli</u>	EL.	QE.	Quel	<u>Unts</u>	<u>Lade Pr</u> oparod	Date Analyzec	Method
Hucnda	0.51	0.10	1		mg/L	Ma	06/19/04	
Ammoria	NID	213	i		(127a_	N/A	387 2/04	EPA 340,2
Total Kasidani Mirogen	MO	0.50	i		ing/L	NG	08:204 08:204	PPA 350.2 EPA 351.2
Phosphorus, I olal	NO	0.10	i		LEU.	6823034	09/21/M4	6PA 301.3
Buchamusal Cixygan Feir and	ND	10	4		mg/l	(8/11/04	09/16:34	EPA 405.1
Chemical Goggen Demand	55	5			mg·L	N/A	98/13/04	EFA 4104
Carbor, Tota Organic	6.2	9.0	10	D	րայլ	N/A	08/11/04	FPA 4:51
Surfactants	014	6,0	1		πaiL	N/A	08/11/04	FPA 425 1



Southern California Edison Material Testing Laboratory 7361 Feoticisk Land

Date Received: Work Order No:

05/25/01 04-08-0549

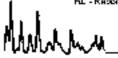
7351 Fenwick Lane

Westminster, CA 92683

Project: 04121

Page 10 of 10

Lab Sample Number - Collection									
McGrod Blank				N	'A A	queous			
Parameter	Hesulf	RL	ΩF	Qual	<u>Units</u>	Only Precared	Date Analyzed	Method	
Syenide Total	ND	0.080	1		mg/L	N/A	08/19/04	EPA 236 7	
Syanide Total	ND	B 05Q	1		πωL	N/A	08/17/04	FPA 336.2	
lucroe	ND	0.40	1		mat	N/A	08/19/04	FPA 340.2	
Ammeria	ND	0.10	1		mg/L	N/A	08/17/04	EPA 350.2	
asa Kjoldahi Moregen	ND	0.50	1		mg/L	N/A	08/13/04	EPA 351.3	
Phosphorue, Tosa	ND	U.1U	1		mga	06/20/04	06/21/04	EPA 365/3	
decliemical Oxygen Damand	NU	1.8	1		regit	08/11/04	08/16/04	EPA 405 1	
Chemical Oxygen Demand	NU	50	1		mg/L	N/A	DB/12/04	FPA 410 4	
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	E8/11/04	EPA 415.1	
Phanoics , Total	ND	0.10	1		mg/l	N/A	08/12/04	EPA 420.1	
Phanolos , Tolgi	NO	9.10	.1		mg/l	N/A	08/12/04	EPA 428.1	
Plenoise, Total	NID	3.13	1		mu/L	N/A	08/10/04	EPA 428 4	
Surfectants	ND	0.10	1		mg/L	MA	08/11/04	EPA 425 1	





Southern California Edison Materia! Testing Laboratory 7351 Ferwick Lane Westminster, ca 92683 Date Received.

Work Order No.:

Preparation:

08/11/04 04-08-0549 N/A

Method:

N/A SM 4500-Br B

Bromide

(35) Fél.Mick Faué	
Westminster, ca 92	6
Project: 04121	

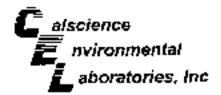
Clerk Sample Number			amb c	Mairo:	Date Collected:	Date Sytracted	Dale Analyzed	QC Bajon ID
1&2 Intake Composite		04-08-0549-37		Aqueous	08/09/04	N/A	08/19/04	40819BRL1
<sup>Э</sup> аг <u>аттеуег</u>	<u>Result</u>	<u>RL</u>	<u>OE</u>	<u>Qual</u>	<u>units</u>			
Bromide	48	10	100	D	mg/L			
132 Outfall Composite		04-08-0	549-38	Aqueous	0B/0B/04	N/A	08/19/04	40819BRL1
erameter	Result	<u>RL</u>	<u>DF</u>	Gual	<u>Unils</u>			
Bromiđe	53	10	100	D	rrg/L			
384 Intake Composite		04-08-0	549-39	Aqueous	08/09/04	N/A	08/19/04	40819ERL1
<u>Рагатик}ег</u>	Rosult	RL	DΕ	Qua:	<u>Units</u>			
Aromiste.	50	10	100	ō	mgA			
354 Outfall Composite		04-08-0	549-40	Aqueous	08/09/04	N/A	08/19/04	40819BRL1
	Resull	<u>RL</u>	<u>p</u> F	Que	<u>Unita</u>			
Bromide	SD	10	100	D	nig/L			
Method Blank		04-08-0	549-MB	Адресив	N/A	NVA	08/19/04	40819BRL1
Pasimeter	Result.	Rı	<u>DF</u>	<u>Qual</u>	<u>Umrs</u>		-	
Bramide	ND	01	1		mg/L			

Muhan.

RL - Reporting Lines

DF - D Litera Factor 1

Onal - Quantiers



# **Quality Control**

QAQC Batch Number: Matrix:

40819BRL1 Aqueous

Date Prepared: Date Analyzog: Preparation Method:

Analytical Method:

N/A 08/19/04 N/A SM 4500-Br B

**Bromide** 

Spiked Sample ID: UNITS:	mg/L	04-08-0549-40							
<u>Anal</u> yte	Sample <u>R</u> asul <u>l</u>	Spike <u>Conc.</u>	MS	<u>%MS</u>	MSD	%MSD	<u>RPD</u>	Spike Rist. Asc <u>, imits</u>	RPD <u>Acclimits</u>
Bromice	US	0.400	0.928	107	0.899	100	3.2%	/0 - #30	25
LCS Sample Numb (INITS.	opr.	40819BRL1							
<u>Ang.vin</u>		Sp.ke <u>Ço</u> n <b>c</b> .	<u>LC5</u>	%LCS	<u>C83.1</u>	%LCSD	RPD	Strike Rec. App Linuts	RPD <u>Attribits</u>
Facrmide		E 400	0.403	101	Nº4	AIA	NíA	80 - 130	29

# alscience nvironmental Quality Control - Spike/Spike Duplicate aboratories, Inc.

Southern California Edison Material Testing Laboratory Date Received: Work Order No: 09/11/04 04-08-0549

7351 Fenwick Lane

Westminster, CA 92683

Project: 04121

Matris: Aqueous	
MIGRALIA MARARA	

Рагал-ени.	Method	<u>Quality</u> Control Sample <u>.12</u>	<u>Dale.</u> Analyzad	Date Extracted	₩5% REC	MSD % REC	%REG CL	860	GL GL	Qualities
Carter, Total Organis	EPA 415 1	187 Injeka Composite	AC:11'20	NA	104	101	70-130	3	0.25	
Pircephona, Total	FPA 365 3	384 Intake Controvate	08/21/04	8297304	111	111	70-138	0.0	0-25	
Fluoride	EPA 340 Z	34-08-0676 13	08/19/04	N/A	วส	104	70-130	5	0.25	



# **Quality Control - Duplicate**

Southern Catifornia Edison Material Testing Laboratory 7351 Fenwick Lane

Westminster, CA 92683.

Date Received: Work Order Na:

08/11/04 04-08-0549

Project: 04121

Matrix: Aqueous								
2310 Telef	Mercod	QO Sample IO	Dare Analyzec	Sample Conc	DUP Cenc	RPO	RPD CL	OLEMOS
Biochemical Oxygen Demand	EPA 905.1	384 Outral Composite	09/16/04	K5	ND	NA.	0.25	
Chemical Coygen Demane	EPA 4134	04-08-0000-1	09:13:04	340	34D		0.25	
Antrigria	EPA 350.2	384 Dutfell Composite	09/12/04	ND	ND	NA.	0-26	
Total Kya cahi Nilrogan	EPA 351.3	384 Oufat Composite	09/12/04	ΝĎ	МĎ	ΝÆ	0-75	



# Quality Control - LCS/LCS Duplicate

Southern California Edison Material Testing Laboratory 7351 Ferwick Lane Westminster, CA 92683

Project: 04121

Date Received: Work Order No: Preparation: Method: N/A 04-08-0549 EPA 3520B EPA 8081A/8082

Quality Control Sample ID	Mairx	Instrun	Date Instrument <u>Freys</u> e		ftain d Anelyzed		LGS/LGSO Bate Number	·
095-01-015-1,278	Aqueous	<b>0</b> € 9	7 087	08/1/04		<b>704</b>	040811110	
<u>Рагатели</u>	<u>105 %</u>	greco	_C\$0 %REC	%RE0	: C	<u>RPC</u>	<u>820 GI</u>	<u>Li Jali</u> hers,
Gemme-BHC	77		72	50-1	35	6	0-25	
Hepta hipr	72		ES	50-1	35	4	7 <b>-2</b> 5	
Endceufan I	75		72	5C-1	35	2	<b>0-75</b>	
Deldrin	81		£,	30-1	25	5	0-25	
Endrin	72		69	50-1	35	4	£ 25	
4,4-DUT	73		es	50-1	95	5	0.25	
Amder-1280	57		80	50-1	35	8	0-25	



# Quality Control - LCS/LCS Duplicate

Southern California Edison Material Testing Laboratory 7351 Ferwick Lane Westminster, CA 92683 Project: 04121

Date Received: Work Order No: N/A 04-08-0549

Mafris: Aqueous

<u>Paragreder</u>	Mejnod	<u>Quality Contral</u> Sample ID	Date Extracted	<u>Dare</u> Analyzed	LCS % REQ	LOSD % REC	MReC CL	<u> </u>	₹ <u>₽₽.</u> GI	Qual
Cyande Tola	EPA 995.3	099-05-061-1,477	N/A	08/13/94	95	26	80-170	1	0-20	
Cyande, Tola	EPA 335.2	388-05-0€1-1,478	N/A	08/17/04	93	100	80 120	2	0-23	
Prenatics, Total	EPA 420 1	099-06-085-1.901	N-A	CB/12/04	96	96	60 120	a	0-23	
Phenolics, Total	EPA 420.1	399-05-065-1,902	N/A	88712/04	98	98	80-120	0	D-20	
Phenolog, Total	EPA 420.1	099-06-085-1,303	N/A	38(134)4	98	98	ec-120	ō	0-20	
Surfaciants	EPA 425.1	099/05/05/041,357	N/A	08/11/04	99	95	BC-123	3	0-20	

# Calscience Environmental Quality Control - Laboratory Control Sample aboratories, Inc.

Southern California Edison Material Testing Laboratory 7351 Ferwick Lane West/ninster, CA 92683

Date Received: Work Order No:

N/A 04-08-0549

Project: 04121

Matrix : Aqueous				<del>-</del>		<del></del> -			
<del>Pargo seper</del>	Method	<u>Gladay Control</u> Sample 10	Dam Aratmed	Date Executed	Sans Adoad	<u>D</u> anc Recoverus	LCS ERec	% <u>Пис</u> 5.	Ç-aifen
Cargon, Total Sirganic Priosphotics Total Fluorige	EPA 415 1 EPA 385.3 EPA 340.2	099-05-097-1,709 099-05-098-1,525 097-01-022-97	08/11/04 08/24/04 08/19/04	N/A 9/20/2004 N/A	10 0 40 0.50	10 0.43 0.57	197 108 133	80-120 80-120 80-120	A-9T)419



#### Glossary of Terms and Qualifiers

Work Order Number: 04-08-0549

Qualifier	<u>Definition</u>
•	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix Interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, bence, the associated sample data was reported with no further corrective action required.
Α	Result is the average of all dilutions, as defined by the method.
В	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column,
D	The analyte concentration was reported from analysis of the diluted sample.
E	Concentration exceeds the calibration range.
Н	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting Ilmit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit,
a	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
Ų	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.





RESIDENTS TO: Facebooks: (714) \$75-0515 Ferror Production Commission

Person Production Contactal Southern Colffornia Edition 7391 Fermick Laur. 2<sup>rd</sup> Soor Westprinster, CA 92603 INVURCE TO:

Southern California Edison Accounts Payable Thirlainn P.O. Box 700 Baranard, CA 91770

#### SAMPLE ANALYSIS MEMORANDUM TO:

Calscience Environmental Laboratories 7440 Lincoln Way Garden Grove, CA 92841

Sauthern Calif, Edison P.O.	Number:	Q1033917	Release Number: A002					
Please return and direct imprires for		Shawn Simon		(714) 895-0515				
In all correspondence refer t	to project.	04121	Famil: shawa.simmons@scc.	c <del>on</del> t				
Sample(s) are submitted for		ition as desc	ribed below.					
Sample ID	Dute Callected	Time Collected	Description/Analytes					
1&2 batake	8/09/04	15:55	Total Phenolics, FPA 420.1					
1&2 Outfall	8/09/04	16:20	Total Phenolics, EPA 420.1					
3&4 Imake	8/09/04	15.20	Total Phenolics, EPA 420.1					
3&4 Outfall	8/09/04	14:45	Total Phenolics, EPA 420.1					
1&2 Intake	8/09/04	18:15	Total Phenolies, EPA 420.1					
1&2 Outfall	8/09/04	18:38	Total Phenolics, EPA 420.1					
3&4 Intake	8/09/04	17:55	Total Phenolics, EPA 420 1					
3&4 Outfall	18/09/04	17:30	Total Phenolics, EPA 420.1					
1&2 Intake	8/09/04	20:50	Total Phenolics, EPA 420.1					
1 & 2 Outfall	8/09/04	21:00	Total Phenolics, EPA 420.1					
3 & 4 Torrake	8/09/04	20:20	Total Phenolics, EPA 420.1					
3&4 Outfall	8/09/04	20:35	Total Phenelics, EPA 420.1					
182 Intake	8/09/04	23 40	Total Phenolics, EPA 420.1					
1&2 Outfall	8/10/04	00.00	Total Phenolics, EPA 420.1					
3&4 Intake	8/09/04	23:15	Total Phonolics, EPA 420.1					
3&4 Outfall	8/09/04	23:25	Total Phenolics, EPA 420.1					
384 Quian		120.2	3000 3 20000000					
				<u></u> _				
Special Instructions:								
	Matri	x is scawate	r					
: <del>-</del>	<del></del>							
	-							
<u></u> .			<del>_</del> _					
Chain of Chicago:		4 8/11/04		Data				
R. C. Sphale By		<u> </u>		Time				
<del>'                                    </del>		mic:		Desir 8/11/04				
<del>-</del>	— <del></del>			New #20				



RESULTS TV:

Faceballe: (714) 895-0515

From: Production Chimical
Scattere California Edition
1301 Fermick Late, T down
Westerhauter, CA 95685

INVOKE TO:

Santhers Cultivate Biland Accounts Payable Division P.O. Box 700 Reserved, CA 91770

#### SAMPLE ANALYSIS MEMORANDUM TO:

Calscience Revironmental Laboratories
7440 Lincolo Way
Garden Grove, CA 92841

		C-ton Com	e, CA 92841	
Į	'	Caroca Grov	E, CA 3201.	
Southern Calif. Edison P.	O Nowher	Q1033917	Release Number:	MR32
Southern Cam. Easter c. Please return and direct i	or statement	Shawn Spnm	ons Tel: (714) 895-4525	Fes: (714) 895-0515
pa an contraction general response to a	r te sreinst	04121	Email: shown simmons (	Sec posts
Sample(s) are submitted	for treatment/discou	dtion 44 descr	ibed below.	
Sambac(1) and moreover			Description/Analytes	
Sample 1D	Date Collected	Cellected		
t&2 Intake	\$/10/04	02:55	Total Phenolics, EPA 420.1	—— —— †
1&2 Outfall	8/10/04	03:15	Total Phenolics, EPA 420.1	—
3&4 Intake	8/10/04	02:15	Total Phenolies, EPA 420.1	—— — <del>-</del> -
3&4 Outfall	\$/10/04	02,35	Total Phenolics, EPA 420.1	_ <del></del>
1&2 Intake	8/10/04	05:55	Total Phenolics, EPA 420.1	<del></del>
1&2 Outfall	8/10/04	96:15	Total Phenolics, SPA 420.1	
3&4 Iptake	8/10/04	05:15	Total Phenolics, EPA 420.1	
3&4 Outfall	8/10/04	D5:35	Total Pacaelics, FPA 420.1	
1&2 Intake	8/10/04	09:15	Total Phenolics, EPA 420.1	
1&2 Outfall	8/10/04	T08:55	Total Phenolics, EPA 420.1	
3&4 Intake	8/10/04	08:15	Total Phenelics, EPA 420.1	··
3&4 Outfall	8/10/04	08.35	Total Phanolics, EPA 420.1	
18/2 Intake	8/10/04	11:55	Total Phenotics, EPA 420.1	
1 &2 Omfall	8/10/04	12:15	Total Phenolics, EPA 120.1	. ——
3&4 Intake	8/10/04	19:15	Total Phenolics, EPA 420.1	
3&4 Ovtfall	8/10/04	11:35	Total Phonolics, FPA 420.1	
1&2 Intake	8/10/D4	14:55	Total Phenolics, EPA 420.1	
1&2 Outfall	8/10/04	15:15	Total Phenolics, EPA 420 1	
3&4 intake	8/10/04	14:15	Total Phenolics, EPA 420.1	
3&4 Ourfall	8/10/04	14:35	Total Phenolics, EPA 420.1	
Chain of Castody:		<del></del>	<del></del>	<u> </u>
1970 Jan	I	<del>∞</del> σ√ν/ου		Petr
- Diagrams	d By	Nos/22004	Received By	
		Dute:	Zerzen	Date 8/11/04
- Relinquish	199	Tiese	Ecouvel B	1mc //90

355 Vali Ness Ave , Suite 116, Torsance, CA 90501-1206 (340) 320-3211 FAX (310) 329-1276 myahya@aylehk con

	MICROBIC	LOGY RES	ULTS		
CRG IDN: 13416 Replica	Le #E1 Project (	D: M:H102 Batch	- 4□: 09∶η	- — . Madaja: Ջա	grads
Sample (AR)C Description: Procedure Hand		Client Nam	m Minu Elsego Stopen Sina		
Date Sompfort: Time Collected:			Escloved. Analysed:	 10-Aug 44 01ט	-
CONSTITUENT	METHOD	RESULT	UNIT	, MDJ.	
Feest Colibium / MTF 2D	SM 9221E	< 30	MPN/100 mt	20	
Lotal Colling (1) 4(1) 4 (20)	SM 92218	< 20	MPW/600 m/	200	

365 Van Ners Ave., Suite 115, Toirance, CA 565/1 1206 (316) J20 3711 FAX (210) 520 1276 myshyz@orglebs.com

·	MICRO	BIOLOGY RE	SULTS	20 127七 myshyz(別triglabs.com	
CRG Ext.: 13417; Replicat	e épon pro	oject ID: MI4IV. But	ey (Dr. 11x10	Matrix: Colores	
Description: Positive Carried	Kordi	Ciliant Narno - NRC, literande Pesser Shawa Singgals			
Date Sampled: Time Collected:		Date Reclayed.		10-Aug-04 0130	
CONSTITUENT	МЕТНОО	RESULT	UNIT	MDI.	
racel Colforn / MTF 20	SM 9221€	PASS	MPN/400 ml	76	
oral Cultonin / MT = 20	SM 9227B	PASS	MPN/100 ms	20	

356 Van Ness Ave., Subs 715, Torranse, CA 90507-1205 (3\*0) (320-3217, FAX (310) 320-1276 myshya@orgabs com

! <del></del>	Mici	ROBIOLOGY	RE	SULTS	B-1278 my-iliya@იცგანა იეი		
CRG IDV: 13380 Replied Sample 13c2 image	Mc AR:	Project ID: MAH141	-	h <b>⊒</b> D: Og69	Metrica Vicence Liber		
Sample 15/2 image Description. L					RC liberante Prove		
Date Sampled: #9 Aug-04 Time Collected: 15ta				Recievad:	00-Aug-04 2033		
CONSTITUENT	МЕТНОВ	RES		UNIT	Appr.		
ecal Solitons / MT/ 20	SM 9221E		 26	MPN/160 esc	- · · · · · · · · · · · · · · · · · · ·		
otal Coliforn (MTF 28	SM 9221B	٠	20	MENUTOD and	ao 		

365 Van Ness Ave., Sode 115, Torrance, CA 96501-1206 (313) 320-3211 PAX (310) 320-1276 (cyntys@eiglebs.com

MICROBIOLOGY RESULTS								
CRG ID#: 13381 Replicate	*#1	Project ID:	MUSIFIE	– Batch	HD: 0309	Alehring:	Whee water	
Sample 192 Octyl) Description:					na: MRC-Blage Showe Som-	gimed Primer		
Date Sampled: 09-Aug 44 Time Collected: 1620	Date Recinend:							
CONSTITUENT	METHOD		RESUL	т_	UNIT	мы		
Focal Culform / MTF 20	SM 92710	:		241	MPM/HRi mi	20		
alal Colfern (MTF 20	SM 92218	:	ě	20	MFV0/100 mL	21		

355 Van Ness Ave., Suda 115, Tomanov, CA 90501-1295 (315) 320-3211 FAX (310) 320-1276 myeliya@cnjiaha oxo

MICROBIOLOGY RESULTS								
CRG IDM: 13382 Replicate #R1	Project ID: M3	+Inz <b>Batch 1</b> 0 /rjg	9 Matria:	Wattonier				
Sample 364 Tetake Description:		Gillant Name: NRG Elsegunta Painer Shear Sheetings						
Data Sampled: 0/1 Aug-04 Time Collected: 1300		Duly Rectors Time Analyza	<b>D</b>					
CONSTITUENT MET	тное	RESULT UN	IT M	D1.				
Fecul Column / MTF 29 SM 9	9221≣	< 20 MPN/	 100 mL 2	20				
fotal Coulorm (MTF 2r) SM (	92 <b>21B</b>	< 20 MEN/1	100 mL g	n				

355 Van Nass Ave. Suite 115, Tonerce, CA 96501 1296 (\$10) 820 (\$211 FAX (\$10) 920 1276 myahye@orgasis.com

MICROBIOLOGY RESULTS							
CRG 100: 13383 Replica	te <b>f</b> ili Prejset	10: M0419a	Batch	I <b>D</b> : 0807	My≬dz:	Washwaye.	
Sample 334 0015h Doscription:		. cıı			nedo Pouro recos		
Oate Sampled: 89-Apg-03 Time Collected: NA	-			Rocievod: Analyzod:	09-Aug-04 2030		
CONSTITUENT	METHOD	RES	JLT	UNIT	MI	я.	
Fecal Coliform / MTF 28	SM 92216	٧.	20	MPN/103 ml	2	n	
Ida Colforn/M12 20	SM 9221B	•	20	MPN/100 rel	7	0	

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MICROBIOLOGY RESULTS							
CRG IDW: 13384 Replace	tm 4RI	Project ID:	MU#198	Badch ((	3 0500	Metna:	Wastowalte
Sample :82 Intaco Description: :	_		Cli	orst Manee	: NRG Elseg Shawa, Sim	azado Poécei ezena	_
Oele Samptoo: 0º Aug el Time Collected: 18 '8					locieved: Analyzad:	09 Aug 04 2030	
CONSTITUENT	METHOD		REŠ	ДT —	UNIT	V) H	·
Secol (V#Korn / MTF 20	SM 92218	<u>.</u>	٠	20	MPN/700 mL	2:1	
Total Collors / MTF 20	SN 192218	3	•	20	(#PN/100 ml	20	

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#### MICROBIOLOGY RESULTS

CRG (Dot 13385 Replicate 43)

Project ID: M0419a Batz NID: 0809

Maintain Wastewater

Sample

1**8**20c:lall

Client Name: NRG Flaguese Power

Dascription: 2

Shawn Simones

Date Sempled:

49 Aug 64

Date Regioved:

09 Aug 04

Time Collected:

1838

Time Analyzed:

2630

CÓNSTITUENT	METHOD	RESULT	บพท	MO1.	
Fecal Culiform / MTF 20	SM 9221E	s 20	MEN9 00 mL	29	
Total Celiforn OVTE 20	SM 92218	< 20	MENUROO mL	20	

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	MICROBIC	LOGY RESU	ILTS		
CRG ID#: 13386 Replicat	teáK) Project:	 ED: MIII∔:9λ Balleh K	1: 09/9	Matrix: Wa	is water
Sample 184 backs Description: 2	· <del></del>	Client Name	Shawa Sina Shawa Sina		.—
Date Sampled: 199-Aug-94 Time Collected: 1755	_ ·		lockwed: Analyzed:	09-Aug-04 2030	·
CÓNSTITUENT	METHOD	RESULT	UNIT	MEH	
Fecal Collision / MCF 20	SM 92216	s 20	MPNOOD IIIL	29	
Talel Colform / M1F, 20	SM 02216	< 20	MPN/100 aid	20-	

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MICROBIOLOGY RESULTS									
CRG IDR: 13387 Replicat	In 4R:	Project ID:	мони	Batch	ND: 6809	Modrist	West guider		
Sample 38/4 Contell Description: 2		_	Ci	ent Nem	Shave Sec.	micov Micov			
Buts Sampled: 09 Aug-04 Time Collected: 17 99	<u> </u>		_		Rocieved:	C9 Aug -04 2000			
CONSTITUENT	метной	_	RESI	NT	UNIT		DI		
Fecal Californ / MTF 20	SM 92216	:	<	20	MFNP100 mL		2.7		
Cotal Colforn / M1F 2D	3M 8221E	3	<	20	MPN/100 mL	;	2.7		

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!	MICR	OBIOLOGY	RESU	LTS		
CRG ID#: 13388 Replicate	i A f	Project 3D: 3504:52.	Resch ID	6 09/4	Matrice: Waster	witi -
Sample 1A/2 bibés Descriptions 1		CE	oni Nama:	SRG Plegs Shawa Sara		
Date Sampled: 06-Aug-04 Time Collected: 2056				ecleved: nažyzed:	10-Aug-04 0139	
CONSTITUENT	METHOD	MES.	VLT	TINU	MN.	
egal Colling MIT 20	SM 9221E		20	MEN/400 ail	20	
Total Colform / MTF 20	<b>534</b> 52216		20	MENUTION III.	20	

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	MICROBI	OLOGY RESU	LTS_		
CRG LDd: 13389 Replicate	IRI Projec	11D. M(419) Ballon E	D: 4809	Matrix:	Wastewater
Sample (&) Opibia Gescription: 5		Client Name	NRG Elseg Steven Sim	m dr. Pewer mens	
Data Sampled: 99 Aug-94 Time Collected: 2666			leelovod: lnalyzed:	16-Aug-04 0130	
CONSTITUENT	METHOD	PESULT	UNIT.	MD	r. :-
Fecal Cofform / MTF 29	SM 9221E	c 20	MPN/100 pd_	20	)
1mai Colforn / MTF 20	SM 9221D	< 25	MPW130 (-A	20	)

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<del></del>	MICROB	IOLOGY RES	JLT\$		
CRG IDE. 13399 Replicate	ilki Proje	cuiDo M/Aliva Batchi	10: 0809	Marida: Wasiewea	
Sample 1.64 toaks Description: 4		Client Nam	a: NRG Blare Shakin Siro	ngen Pewer moos	
Date Sampled: 09-Aug-III4 Time Collected: 3020			Recioved: Analyzed:	10 Aug 04 D130	
CONSTITUENT	METHOD	RESULT	UNIT	NDL	
Facat Coliform / MTF 20	SM 97246	r 20	MPN/100 mL	20	
Fotal Coldom J MOT-20	SM 92218	s 20	MPN/100 mS	20	

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MICROBIOLOGY RESULTS								
CRG (D4: 1339)   Applicati	Project	ID: M:Hivs Batch 10	C Conthi	Motrix:	Waskwalm			
Semple J&4 Outbill Description: 1	· · ·	Clion4 Man=:	NRCi Fisego Shawa Suur					
Date Sampled: IP Aug 04 Three Collected: 2003			eclaved: malyzed:	10-Aug-04 0130				
CONSTITUENT	метнор	REBULT	UNIT	МТ				
Focal Colfonii / MTF 20	SM 92216	< 20	MPN/100 (-/)	7	0			
Total Colingon (MTE 20	8M 9221B	s 20	MPN/100 mi	2	a			

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MICROBIOLOGY RESULTS								
CRG ID#: 13392 Replicate F	RI Project ID:	MC419a Batch ED: URI	Walter Warena	<u></u>				
Sample 162 toak: Description: 3			ItG Elveguser Pewer Fewn Simmons					
Date Samplod: 09 Aug 94 Time Collected: 2040	- ·	Date Reciev Tione Analys						
CONSTITUENT	METHOD	RESULT U	NIT NIEM.					
Fecal Crittim + MTF 20	SM 9221E	< 20 MPN	u100 mL 241					
Total Colforni / M1H-2D	SM 92215	< 20 MPN	MOO mi. 20					

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MICROBIOLOGY RESULTS								
CRG 104. [3393 Replicate AR	: Project ID:	M04192 Betch	to- 0000	<b>Ма</b> нія: Межечакт				
Sample 1&2 Outfull Description. <sub>1</sub>		Citioni Nam	e: NSS Flags Shave Scra					
Date Sampled: 0%-Aug-84 Time Collected: 0000			Reclaved: Analyzed	10-Aug 04 01:01				
CONSTITUENT	METHOD	RESULT	риц	MIDL				
Facal Colform / MTI   28	SM: 9221E	< 20	MPN/RUML	20)				
Total Colforn / MTF 20	SM 92218	< ZiI	мем'тас ⊢С	20				

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MICROBIOLOGY RESULTS									
CRG ID#: 13,194	: Raplicale AR:	Project (D	- MOHINE E	alich 心:	court	Matrix:	Wadeworki		
Sample 364 Description:	luteke		Ç <b>lin</b> a	i Namo:	NEG Hargu Shawa Stran				
Date Sampled: Tires Collected:	98-Ang-04 2335	_		Calo Re Teme An		10-Aug-94 0130			
CONSTITUENT		METHDO:	RESUL	7	UNIT		νт.		
Fecal Colforin / Mil	F 2IF :	SM 9221L		20 6	IPN/100 mL	21	)		
Tistal Golforn / MTS	- 20 :	SM 9225B	*	20 3	4PN/190 n.L.	2	o		

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MICROBIOLOGY RESULTS									
CRG IDN: 13395; Roplicates	IKI Proje	et 10: Milaton - Radich IO	e 0809	Matrix:	Wastewater				
Sample 98/4 Cuthii Description: 4		Client Name:	APU I leg Shaen Sin	urae Poolt mont	•				
Date Sampled: 09 Aug-04 Time Collected: 0525			nelyzed:	10-Aug-04 (11:90					
CONSTITUENT	METHOD	RESULT	ONIT	м	)I.				
Hexal Colforn / MTF 20	SM 0221E	< 2D	мнім тро піс	2	9				
Total Criticon (MTF 20	SM 9221B	< 20	MPNV:00 TIL	2	o.				

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MICROBIOLOGY RESULTS								
CRG ID#: 13396 Replicate #R	) Project ID:	March Balch ID:	0909	Matrice:	Wastewater			
Sample 1&2 Intele Description: 4	·	Client Mane:	NRG Fixes Shown Sine					
Date Sampled: 1/2-A-q-44 Time Collected: 0255	_	Date Red Time An		10-Aug-64 0930	<u> </u>			
CONSTITUENT	METHÓD	RESILT	UNIT	_ Mbi	r			
Focal Celform / MTP (20)	8M 922HE	< 20 N	PN/100 mil	20	l			
Tatal Bolterm / MTF 20	SM 9221B	20 N	SYNITCO INL	20	l			

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MICROBIOLOGY RESULTS									
CRG 10+ + (3.397 - Replicate A	R: Project	(ND: NX419s Balch (D)	coin	Matrix: Westward	=				
Sample Lav2 Controll Client Manner: NRC JPRegundo Power Description: y Shawa Sammyr									
Date Sampled: 10-Aug 04 Timo Collected: 01-5		tiale Re Time Ar	soleved:	10-Aug-84 0830					
CONSTITUENT	METHOD	RESULT	UNIT	50DC					
Fecal Coliforn (MTF 28	SM 9221E	r 20	MPNY166 mL	20					
Total GidPorth / Mil 5 20	SM 9221B	< 98	MPN/100 ML	201					

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	MICROB	IOLOGY RES	SULT\$		_
CRS LOS: 13398 Replicate to	kl Praje	cilio: M(4)/w Batch	1 <b>ED</b> : 08 5	Matria: Westowner	
Sample skyl brake Description: 5	_	Client Ner	NRG Bise Stavn Sm	улос Ромет теаь	
Bulli Sampled: 10 Aug-04 Time Gellected: 0715	<del></del> .		Recieved: e Analyzed:	10-Aug 04 0830	•
CONSTITUENT	метноо	RESULT	инп _	55DL.	_
Fecal Coliforni / MTH 26	SM 9221E	< 29	MPN/100 mL	20	
Yetal Colikari 1 MCF 20	SM 9221R	s 20	MPN/100 m2	20	

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	MICR	OBIOLOGY	RESU	LTS			
CRG 104: 13399 Neplica	40 451 I	Pvojeci ID: MS41%	Batch ID	: 0810	Mb/h/>	Wiessphan	
Sympto A&& Outfall Description: 5		Chemi Name NRG Bisegundo Power Shawo Scietorus					
Cate Sampled: 10 Axg 0- Time Collected: 0235	. —			 oclavad: inalyzed:	10-Aug-64 0830	-	
CONSTITUENT	МЕТНОВ	RES	ULT	UNIT -	: ME	Di	_
Hacal Colifirm (MFF 20	SM 92216	•	20	MPN/100 mL	2	99	
Tulal Colform / MTF 20	SM 92219	•	20	MPN/100 ml.	2	90	

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i	MICROB	IOLOGY F	ESUI	_TS			Ĺ
CRG FOR 13400 Replicati	ARI Proje	64   D. M634   %	Baten 160:	USID	Madrix:	Wisherst	
Sample 1&2 Intake CEant Name: NRC Flagunds Power  Description: 6 Share Sugmess							
Date Sampland: 10 Aug (4 Time Collected: 8227			Date Re-		10-Aug-04 0830		
СОМЯТПИЕМТ	METHOD	RESU	<u>.T</u>	מאט_	icted	i. 	
Fecal Coliform / MTF 20	SM 92210	<	20 8	¢Р№100 го⊾	20		
Total Colforn / MTF 70	SM 9221 <b>8</b>	¢	20 8	APNU100 ani	20		

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	MICROE	IOLOGY RE	รบLTS		
CRG 106: 13401 Replicat	e AR.; Proje	crib: Mistry Bate	eh MD: OKTU	Matria	Мехмект
Sample (&? Cr.!6)  Description: 6		Client N	sano: NRI i Blarg Spawo Sin	чик о Ромог шааты	
Date Sampled: 10-Aug-04 Eime Collected: 9613			le Recieved: nje Analyzad:	10 Aug 04 6830	
CONSTITUENT	METHOD	RESULT	UNIT	м	14.
Hecal Colibum (M85-20	SM 5721E	c 20	MPN/400 mL	. ;	90
Tainl Colform / MTF 20	SM 52218	4 20	MPN(100 pd		!0

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<u> </u>	MICROBIO	LOGY RESU	ĒTS _		<u></u> i
CRG IDW: 134U2 Roplecate	•11: Project D	D: MONTHS Batch ID:	0.00	Matrix: Was	kwant
Sample 3&4 bluet Costription: 6		Client Name:	NRG I Jegger Stevn Simm		
Date Sampled. UI Airs, 84 Time Collected: 0315			octovod: natyzed:	 0830	_
CONSTITUENT	METHOD	RESULT	UNIT	MAI.	
Festal Coliforni / MTF 20	SM 9221E	• 20	MPN/RIGHT	20	
Total Colform - MRF 20	SM 92218	< 2B	MPN/100mL	20	

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MICROBIOLOGY RESULTS									
CRG 10#: 13403 Replicate	 в ВКІ Реоја	cilios Mirajān Batchio	D: U215	Mairix:	Wadensor				
Sample 384 (XXIII) Description: 6	·	Client Name	sensor Sing	min Fewer					
Date Sampled: 10-Aug 04 Fine Collected: 0350				10-Aug- <b>04</b> 0830					
CONSTITUENT	METHOD	RESULT	חואנו	 FII	M				
recal Colling (MTF 20	SM 52218	n 20	MPN(10) od	2	III-				
Tela Collons / MIF 20	5M 9221B	< 29	MPN/100 ml	2	ro				

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MICROBIOLOGY RESULTS									
CRG ICE: 13404 Replicat	le 1Ki Projecti	D: MO1150 Batelvic	); OS I II	Madria V	Vanuaer				
Sample 1&2 Luke Osseniption: 7		Client Name	: NRO Elst; Stava Sur	урубо Йомет Ипассы	_				
Date Sampled: Ltt-Aug-04 Time Collected: 0915	<del></del> -		broleved; Anelyzed	18 Aug 04 13 30					
CONSTITUENT	NET) IÔD	RESULT	חוגע	MDL					
Fecal Coffusii (M7F 20	5AI 92215	< 20	<b>№№</b> /100 mL	. 26					
Yellat Coliforn / MTF 20	SM 92218	c 29	MPNOODAL	20					

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ii	MICROBIO	LOGY RES	ULTŠ			
CRG ID#: 13405 Replicate	ARI Project M	); MINION Datch	D 0810	Mythin: Wash	ewaler 	
Sample 1.82 Clustell Client Manue: NRG Etergrado Porces Description: 7 Shawt, Simpsons						
Date Samples: IR-Aug-04 Time CoNocted: 0855			Recleved: Analyzed:	10-Aug-04 1330		
CONSTITUENT	METHOD	RESULT	UNIT	MDI.		
Facal Colimn (M41-20	S&1 5271F	< 20	M97N/100 mL	211		
Idla Golform/MTF 20	5M 5021B	× 20	MPN/190 mL	20		

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MICROBIOLOGY RESULTS								
CRG EDS: 13496 Replicate	OKI Projeci	ID- MARINA Berlein NO	_		EALTH-NIT			
Sample SA4 Inside Client Name: NRC Plaguage Power Description: 9 Shawa Stratons								
Date Sampled: 10-Aug-04 Time Collected: 0815			scleved: malyzod:	15-Aug 94 1330				
CONSTITUENT	METHOD	RESULT	UNIT .	млғ.				
Feral Colitoms MEF 20	\$M 9771E	< 20	MENISOCIAL	20				
Tebs Collins in / M1H 2D	5M 9221B	< 20	MPN/100 ml.	20				

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<u> </u>	MICROBIOLO	GY RESI	ELTS				
CRG IDN: 13467 Replicate #	K1 Project (D: N	Inaroa Bartch K	), N810	Metrix:	Wastewater		
Sample 38-1 GotSilt Client Name: MRG Elegende Power Description: 7 Share Simmon							
Dele Rempiod: 18-Aug-04 Time Collected: 0335			Leckoved: Analyzed	18) Aug-04 1330			
соизппивит	METHÓD	REGULT	UNIT	. Na	ъL _		
Fecal Colforni / M1F 2II	SM 9221F	~ 29	мемлинен	:	70		
fetal Colikerna MTF 20	SM 9771B	s 20	MPN/100 mL	:	20		

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MICROBIOLOGY RESULTS								
CRG ID# : 13408 : Replicate 48	.1	Project ID	: MIIA	Van <b>Ber</b> ch	. AR3O	Matris: #aslcw	ulic	
Sample 152 Scale Description: g	Client Norme: NRfi Elegande Proces Steen Situators							
Date Semoled: 10 Aug 84 Time Collected: 1333	-		_		e Recieved: e Analyzed:	10-Ang-04 1330		
CONSTITUENT	METHOO	· _		RESULT	UNI7	мэг.	_	
Fexal Coliom / MTF 20	SM 92218			K 70	M-N/100 mL	20		
Total Californi / MTF 20	SSM #2218	3		< 20	<b>M<sup>©</sup>N</b> (100 m).	29		

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MICROBIOLOGY RESULTS								
CRG ID#. 13409 : Replicat	te A R	Project ID: 7414196	Beich TO:	0510	Matris:	Waspwarer		
Sample &2 Cutfull Description: k		:	orst Name:	NRG hisegr Shawn Simi				
Date Sampled: III-Aug-04 Time Collected (215			Dale Re Time An		10-Aug-04 1330			
CONSTITUENT	METHOD	RES	IJLT -	UNIT				
Seant Coliform / MTF 20	5M 9221E	. •	20 4	MPN/100 inL	2	0		
Local Coliforn / MT / 20	SM 922 IB		28 1	MPNV1RR MC	8	m		

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MICROBIOLOGY RESULTS								
CRG ID#: 1341U Replicat	—————————————————————————————————————	Project ID: MI#150	B#Ich I	u: 0830	Metric:	Wastewater		
Semplu 3&4 ≘usc Description: g			Slient Nam	e; NRG Elsegu Shewn Simm				
Date Sampled: 10-Ang 464 Time Collected: 13:3	_			Reclaused: Analyzed:	13:36 13:36			
CONSTITUENT	METHÓD	RE	SULT _	UNIT	- 31)	ı		
Fecal Collisions / MTC 20	SM 92216	ŧ	e 20	MENISCO ML	2	a		
Tulel Collare / MT/120	SM 92217	R	e 20	MPN(103 mL	2	n		

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<del> </del>	MICROBIC	DLOGY RESU	ILTS	<u></u>
CRG ID#: 13411 Replicat	e∦k'. Project	MD: MORINE Batish K	). O4LII	Matrix: Washington
Sample 364 Gui Sill Onsectipteon: K		Clier/ Name	NRG Flyery Sharen Simm	
Date Sampled: 10-Aug IIIa Tirny Collected: 1122			beslaved: Anglyzed:	18-Aug-04 1336
CONSTITUENT	METHOD	RESULT	1UMRIT _	, MM
Fecal Coffeen (M1F 20	SM 92716	< 20	MPN/100 mL	26
Total Colikers (MCF 20	SM 9771B	<b>₹</b> 20	MPN/198 mL	20

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<del></del>	MICROBIC	LOGY RESU	LTS_		
RG 1D0 : 13412 : Replicate AR	Project l	D: MO4191 Balich 10	: เดเม	MMrlx:	Wuxtenkr
Sample 182 Intaks Description: 9		Cilora Name:	s RG Fäuge Sagen Sind		
Onte Sampled* 185 Aug-84  Time Collected: 1455			nalyand:	10-Ang 64 1630	
CÓNSTITUENT	МЕ <del>тнор</del>	RESULT	1JAUT		_
peral Collorm / MTF 20	5M 9Z21E	< 20	MPN:100 mL	20	,
	SM 9221B	< 20	MPN/100 mL	20	ı

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<del></del>	MICROBIO	LOGY RESI	JLTS	
CRG IDE: 13413   Replicate 41	Droject E	D: MAHIYA BUACH I	E. 65 <sup>1</sup> 9	Matrix: Washwater
Sample J&2 fluidii Description: q		Çliset Nam	e; NRG Elsept Stewn Sinn	
Date Sampled: 10-Acp 04  Time Collected: 1515			Rooloved: Analyzad:	10-Ang-14 16(H)
CONSTITUENT	MCTHOD	RESULT	UNIT	MDJ.
Hodal Collinent / MIF 20	SM 9721E	< ZJ	мполов нь	26
ional Collecti (MTF 20	SM 9221B	2 20	MPNU100 au	20

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	MICROBIOL	<u>OGY RESU</u>	LTS	·
CRG (DV: . 13414   Replicate	≱R1 Project™:	MINATON BENCH ID	- 5410	Matrix: Washwales
Sample 3.6.4 Intake Description		Cilent Name.	NKG Blagger Sheve Suppo	
Date Sampled: 11-Aug-04			ecieved: 1 tralysed:	O4 1600
Time Collected* (4)5				
THE COMMENTS	метноо	RESULT	EINIT	мы.
CONSTITUENT  Fecal Copium - MTF 20	<b>МЕТНОО</b> 5M 9221#		EINIT - · · · · · · · · · · · · · · · · · · ·	MD1.

355 Van Ness Are., Suber 15: Torrance, CA 90501-1206 (310) \$20-3211 FAX (310) 320-1276 myahyatganglahs.com

255 Van Ness Ave., Suite 1		LOGY RES			1
CRG Ed:     3415   Ropliceb		in: Mishba Betch ii		Matrix: Wasawern	-
Semple 364 Octivili Description: 9		Çlient Nam⁴	NRG Flenge Shrwz Sanz		
Date Semplod: 19-Aog 04 Yime Collected: 14-15			Rocsevéd. Analyzad.	10-Aug-04 4500	
CONSTITUENT	METHOD	RESULT	חאט	Mbl	
Secal Colifornia MFF 20	\$ <b>∆</b> ] 9721 <b>E</b>	v 20	MPN/800 ail	27	
Total Colifican / MTF 20	SM: 92218	< 20	MPN/100 ml	70	



2020 Del Amo Bivd. Suite 200, Tomance, GA 90501 + (310) 533-5190 + FAX (310) 533-5003 + <u>genigrost@collebs.com</u>

August 25, 2004

Power Production Chemical Southern California Edison 7301 Ferrwick Lane, 2<sup>rd</sup> Floor Westmonster, CA 92683

Эc.

CRG Project ID:

F24117

SCE Project:

04121

ATTN: Mr. Shawn Simmons

CRG Matrine Laboratories is pleased to provide you with the encursed analytical dara report for your 04121 Project. According to the chain-of-rustody, 4 samples were received intact and cool at CRG on August 11, 2004. Per your instructions, the samples were analyzed for:

Trace Metals By (CPMS Using BPA Method 1640 & 200.8)

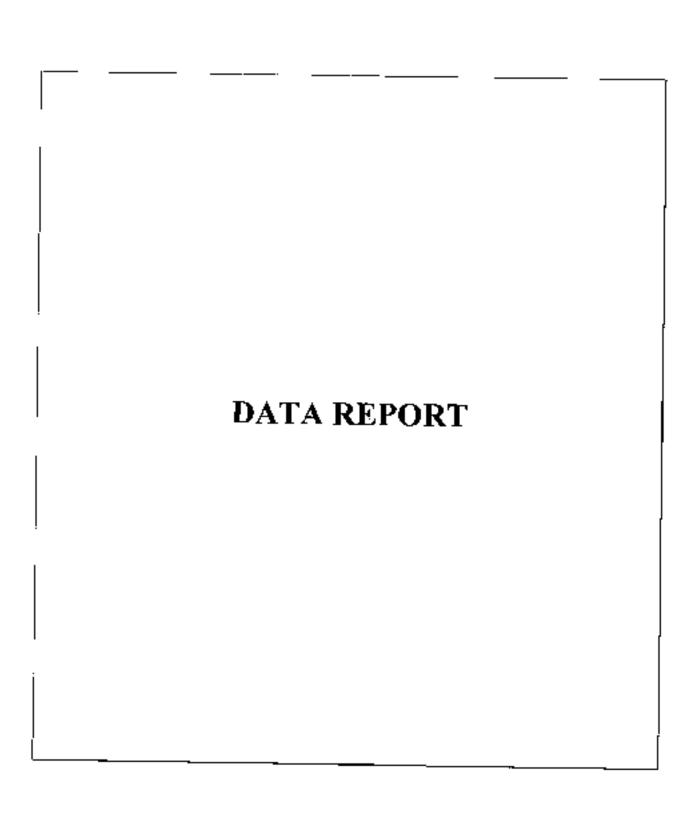
Please den't hesitate to call if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards, Misty Burja Mercier Project Manager

White Brances

Signally a great New York British to composite Child Angle Mayors, Child Child Child Angle Mayors, Child Child Child Child Angle (New 2004 (A. 27.08.59.01.00.00)

Reviewed and Approved



### CRG Marine Laboratories, 9mc.

Clent Southern	Clent: Southern California Edison					CRG Project ID:	ect IO:	24117
CRG IDS: 19287 Replicate & LCM	Sample	OWG	LCM-CRG Saewalar	aswalar	& B	Date Sampled: Date Received:		
Botch ID: 24117 10377 Instrument: ICPMS #1 + IPASED	Matrix: Matrix: Avelous:	Soowaler P. Herbielman			i 6 6	Date Processed.	d. 18-Aug-D4 23-Aug-04	23
CONSTITUENT	FRACTION	METIND	RESULT	THE	MDE.	<b>Ξ</b>		ACCEPTANCE
Alumination [Al]	1910;	6PA 1840	9	right.	104	0.125	-	2
Arrymony (5t)	_olal	EPN 1640	2500	- <del>-</del> -	00	9.00	-	2
Argenic (As)	lein -	FFA 1640	17	hy.	0.01	0.D:5	-	\$
Bonyllum (Be)	Total	EFA 1840	E 0.006	-,êd	0.003	5.0	-	\$
Cadmium (3d)	Tolal	€PA 184U	11.004	ligh.	4.06.5	177	-	MA
Christian (Cr.	Total	EPA 1640	0.915	Py <sup>2</sup> C	<b>0.0</b> C5	6.0	-	\$
Coat (Col	Tolpi	EPA 1840	0.•11	rii.	0.00	0.31	-	N.
Copper(Cu)	Tolal	CPA 1043	0.724	γBr	0.005	10.0	-	Ą
lign (Fe)	Total	EPA 1643	3.455	l <sub>i</sub> giq	5,01	0.025	-	\$
Lean (Pb)	Total	EPA 1643	3.0%	Jun,	O.Out	10:0	-	3
Nanganese (Mn)	Total	EPA 2640	3.447	иру	0.305	99	-	¥
Mercury (Hg)	Tetal	CPA NG40		ηfit	9000	601	-	4
Matybdenum (Mc)	letal	FP4 1640	9.54	الإد	0.00€	100		ş
Mickel (Ni)	762	EPA 1840	72.0	Ήťτ	0.3115	100		4
Selence (Se)	L TES	EPA 1140	F034,	Įć.	0.34	0.015	,	ź
Silve-(Ag)	Total	문구의 1640	9	J/grt	0000	<u>. 01</u>		NA
	Total	2PA 1840	E 0.037	1,64	56D Q	<u>.</u>	,	ă
Ter (Sh)	Flat	FPA 1540	E 0 0 3 5	lo.	5000	C.01		ź
Tatanum (III	ToleI	≣₽8.1840	760	1/6r	0.038	E.D.	-	NA A
((2) 0.82	lula"	1-24 154E	r:	Į.	200	101	-	ď.

MDL- Method Jetechon Linux (CFR 30 Year 196). RJ.: Malmuss Levid (SWBCIE). E- Estemaint Value below the Rf. and a box ofter MDL, VIII—Not Optional NA - Not Applicable.

Calibraia XI.A P. Certificate v 2261

7 25261

### **CRG Martine Laboratorices, 9mc.**2020 Dol Ama Blud. Suzz 700. Terrance CA 90501-1236 (310) 530-5130 FAX (310) 530-5003 englete@stropbel net

Client:	Southern California Edison	fornia Edison				O	RG Pro	CRG Project ID:	24117
CRG ID#: 59287 Benkeving: 1082	19287 I CM2	Sample Doccuption:	מאמנ	_CM-CRG Seawafor	Seawater	8 6	Data Sampled:	e t	
Barton ID:	24117-70071	Matrie:	Godwaren			8.8	Date Processed:	med: 1ō-Aug-04	04
instrument:	instrument: ILPMS#1 HP4500	Analyst	P. Hershahini			90	Date Analyzed:	d: 25·Aug-44	414
CONSTITUENT	עד	FRACTION	METHOD	RESTUT	CNITS	MIN.	JEI.	DICHTION	ACCEPTANCE BANCE
ANTHOR (All	i 	Total	≣2A 1640	Š	nn,	10.0	0.126	-	Ą
Antimony (Sb)	-	Total	2.5% 1640	20.10	Jugit	0.01	0.315	-	ź
Arsenic (As)		Total	FPA 1643	1,47	r <sub>0</sub> q	001	0.315	-	A.
Berylfum (Be)	· <del>-</del> ·	Total	EPA 1843	5000	J.H.	0.005	0.0	-	Ą
Cade of City	÷	Total	EPA 1043	0.027	ᄺ	0.305	180	-	ź
Chramium (Cr)	=	Total	EPA 1643	0.946	101	9000	ē	-	ΝΑ
Cothair (Co.)		Tota	EP# 1643	0.086	µ0√.	0.008	10:0	-	ΝΑ
Copper (Cu)		Tota	CPA 1043	d.108	Jen	0.003	16.0	-	ΑĮV
ron (Fa)		<b>7</b> 5	EPA 1643	0.33	Ę	011,	0.025	-	ఠ
Laad (Pb)		Tota	EPA 1640	0.371	JOG	0000	6	-	Š
Mangarese (Mn)	Mil	Tutai	EPA 1640	0.586	اتر	0.005	100	-	<del>S</del>
Mercury (19)		Tabl	EPA 1640	Ş	ΉĘτ	0 035	100		ź
Моўстан (Ме)	(Mc)	Total	FP4 1640	9.96	ارتر	0035	00	٠.	함
NOREL (N)		Tulal	CPA 16/10	0.235	الإنز	0.0035	50		Ą
Seamon   Sea	-		EPA 1540	7	Ji£d.	50	5103		ఠ
Sitzer (Ag)		T0(3)	EPA 1640	2	וימיו	000	60		Νφ
Li raller		c a	CPA 1640	E o.du?	J.fri	t 035	001		ž
indsin)		-glai	FPA - 640	2	ž	000	60		NA
The most		-olei	CPA 1840	0.72	ig.	5000	0.01		ž
Z nc (Zn		, III	CP4 '640	2 92	Hg.	E 0015	1001		Ą.

MDL= Method Detection Color 40 Part 136g RL = Minimum Level (SWRCB). S. Exfereiral Value below the RL and above the MD < NIP Not Detected, NA - Net Applicable.

Cultinols ELAP Certificate # 2263 19287 (CN2

### CEG Marine Laboratories, 94c. 2020 Del Amc Blod., Sues 300 Turinnes, CA 20507-1208 (3:0) 633 5130 FAX 13131 533-5033 orgists@ebcglobal met

Client:	Client: Southern California Edison	ornia Edison				O	RG Pro	CRG Project ID:	24117
CRO ID4: 59 Reposate # R1	19288 R1	Затрія Поветрібот:	Unix 152 inigke Project #54121	Compusite B	Compusite Bis-D4-B/10/04	ة ة	Date Sampled Date Received:	и ВЭ-Анд-О4 ed: 1-Aus-de	<b>4</b> 5
Batch ID: Instrument:	24117 10074 IGPMS #1 EP4500	Matrix: Analogi	Sezwang: Fillershohman			166	Cabs Processed:	÷	i ii a
CONSTITUTE	5	PRACTION	MFTH(j)	RESULT	UNUE	Ē	.LB	158	ACCEPTANCE
Азапата (А)	  -	Total	LP4 1643	13.4	חשיר	001	0.325	· -	- g
Anthony (So)	_	Top	FPA 1540	0.13	ابور	00	5100	-	ž
Arbeniu (As)		Tolel	EP4 '640	1.75	Ę	50	0.015	-	ž
Beytlam (Bo)	٠.	Total	CPA '640	E D 0 3 3	F2 <sup>1</sup> C	0.00	10.0	-	Y.
Cadminim (Cd)	-	[P]	HPA 1540	000	וימיו	0.00	131	-	47
Chication for		lela-	EPA 1840	0.785	ą.	0.00	13.0	-	ž
Ooball (Co)		Inlo:	CPA 1540	P 0.55	J'KM	0.005	5.04	-	ş
Coaper IC.II		Lich	EPA 1540	0 703	l s	0.005	<b>1</b> 0.0	-	¥
Iron (Fe)		Infal	FPA, 1840	6.42	ht,r	1.64	0.375	-	\$
Lead (PE)		Tolal	CPA 1640	9.1	.41	0.006	60	-	\$
Manganeso (Mo)	Απ)	Total	EPA 1640	1.35	-/64	0.005	10,0	-	A.
Mercury (Hg)		Total	EPA 1640	NC NC	PB4	0.306	60	-	4
Nohodenica (No	loyal	Tess	EPA 1843	3.45	lığı	0 008	00	-	7
Nickel (Ni)		€3T	EPA 1643	0.435	J.H.	5000	100	-	3
Selencian (Se)		KIL	EPA 1640	0.33	ц	60	2015	-	ž
Silver (Ag)		7610L	CPA MEND	Q	μgγ	0002	60		ΔN
ITI manilledi		Telal	EPA 1540	F 0 0 0 9	Jugu-	0.035	0.0		Νά
Te (Sr)		Tolal	EnA 1640	₽	Įή	6003	0.01		ž
(II) muscus			5PA 164P	103	الإر	0.00	10.0		ă
(2) o <b>.5</b> 7		"alal	∋ P.A. 1640	124	'ntп	0.002	1.61	-	¥

MDL- Velkod Betechni Jach (CFR 40 Part 136): RL- Maximum Leric (SWRCB); Se Estimated Nathe beton the RC and above the MDL; Nh- Not Detected: NA+ Not Applicable.

California 31.4 P. Cerefficate H 2361 **9** 

¥

### CRG Marine Laboratories. Inc.

2020 Det Amp Blud | Stute 200, Terrando | CA 50501-1706 (310) 535-5190 | FAX (310) 533-5003 crylabs@secglobal net

9014 Date Sampled: 03 Aug/2-10 Date Received: 11-Aug-2-10 Date Received: 11-Aug-2-10 Date Received: 12-Aug-10-10 Date Received: 22-Aug-10-10 Date Analyzad: 22-Aug-10-10 D	Client: 5	Southern California	iffornia Edison				اتا	RG Pro	CRG Project ID:	24117
Table   EPA 1640   23.2   µNL   3.00   NL   ALCTON	CRG IDd: Replicate 4: 1 Batch ID: 1:	49289 8 1 24117-10071 CPMS-41 HP4500	•	" -	Composito	M0304 27 P.0.114	8888	ite Bomple ite Recelivi ite Process ite Analyze	÷	<u> </u>
1	CONSTITUEN		FRACTION	METHOD	RXST C.F	CNIFF	NDI.	뒾	DICHTON	ACCEPTANCE
17-131   EPA-1643   159   1981   1301     17-131   EPA-1643   159   1981   1301     17-131   EPA-1643   149   1981   1301     17-131   EPA-1643   1302   1981   1302     17-131   EPA-1643   1302   1981   1302     17-131   EPA-1643   1304   1981   1308     17-131   EPA-1643   124   1981   1308     17-131   EPA-1643   124   1981   1308     17-131   EPA-1643   126   1981   1308     17-131   EPA-1643   126   1981   1308     17-131   EPA-1643   128   1991   1308     17-131   EPA-1643   1308   1308     17-131   1024   EPA-1643   1308   1301   1301     17-131   1024   EPA-1643   1301   1301     17-131   1024   EPA-1643   125   1301   1301     17-131   125   1301   1301     17-131   125   1301   1301     17-131   125   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1301   1202     17-131   1202   1202   1202     17-131   1202   1202     17-131   1202   1202     17-131   1202   1202     17-1	Aluminum (Al)	I	laleT	EP4 1840	23.2	P.W.L	5,6	0.125	-	4
Total FPA 1643 159   pg/l 3111	Andmony (Sb)		Falal	EPA 1643	0.355	1,811	ום.נ	\$10.0	-	ş
()         Total         EPA 1043         VD         μμ/L         3.305           d;         Total         EPA 1043         3.121         μμ/L         3.305           f;         Total         EPA 1643         3.73         μg/L         3.305           Total         EPA 1643         2.74         μg/L         3.305           Iofal         EPA 1643         3.505         μg/L         0.305           Infl         Total         EPA 1643         3.505         μg/L         0.305           Infl         Total         EPA 1643         1.58         μg/L         0.305           Infl         Total         EPA 1640         1.58         μg/L         0.305           Infl         Total         EPA 1640         1.3         μg/L         0.305           Infl         Total         EPA 1640         0.325         μg/L         0.305           Infl         Total         EPA 1640         0.325         μg/L         0.305           Infl         Total         EPA 1640         0.325         μg/L         0.035           Infl         Total         EPA 1640         0.325         μg/L         0.035           Infl         EPA 1	Arsenic (As)		Tolal	FPA 1643	68	l'gi-l	יוונ	0.015	-	¥
d;         Total         EPA 1643         3.021         µg/L         3.005           r)         Total         EPA 1643         3.73         µg/L         3.005           Total         EPA 1643         3.044         µg/L         3.005           Total         EPA 1643         2.74         µg/L         3.005           MAI         Total         EPA 1640         3.505         µg/L         0.005           MAI         Total         EPA 1640         1.58         µg/L         0.005           MAI         Total         EPA 1640         6.0.105         µg/L         0.005           MAI         Total         EPA 1640         0.555         µg/L         0.005           MAI         Total         EPA 1640         0.325         µg/L         0.005           MAI         Total         EPA 1640         NJ         µg/L         0.005           MAI         Total         EPA 1640         NJ         µg/L         0.005           MAI         Total         EPA 1640         NJ         µg/L         0.005           MAI         Total         EPA 1640         NJ         µg/L         0.005           MAI         Total	Beryllum (Be)		Total	EPA 1640	9	hygh	5000	60	-	44
Total EPA 1647	Cadhium (Cd;		Total	EPA 1043	0.021	nB4L	3.005	00	-	수
Total   EPA 1643   2.74   µg/L   2.305     Total   EPA 1643   2.74   µg/L   0.305     Total   EPA 1640   3.505   µg/L   0.305     Mail   Total   EPA 1640   1.58   µg/L   0.305     Mail   Total   EPA 1640   1.58   µg/L   0.305     Mail   Total   EPA 1640   1.58   µg/L   0.305     Mail   Total   EPA 1640   0.355   µg/L   0.305     Mail   Total   EPA 1640   0.325   µg/L   0.305     Total   EPA 1640   D.0.22   µg/L   0.005     Total   EPA 1640   D.0.23   µg/L   0.005     Total   EPA 1640   D.0.25   µg/L   0.005     Total   EPA 1640   D.25   µg/L   0.005     Total   EPA 1640   D.25   µg/L   0.005     Total   EPA 1640   D.25   µg/L   0.005     Total   EPA 1640   D.25   µg/L   0.005     Total   EPA 1640   D.25   µg/L   0.005     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   EPA 1640   D.25   µg/L   D.205     Total   D.25   D.25   µg/L   D.205     Total   D.25   D.25   D.205     Total   D.25   D.205   D.205     Total   D.25   D.205   D.205     Total   D.25   D.205   D.205     Total   D.25   D.205   D.205     Total   D.25   D.205   D.205     Total   D.205   D.205   D.205     Total   D.205   D.205   D.205     Total   D.205   D.205     Total   D.205   D.205   D.205     Total	Chromater (Cr)		Tojal	EP# 1643	5.73	1.8.1	2005	004	-	ź
Total   EPA 1643   1244   µght   0.105     Total   EPA 1640   1.54   µght   0.105     Total   EPA 1640   1.58   µght   0.105     Mail   Total   EPA 1640   1.58   µght   0.105     Mail   Total   EPA 1640   1.58   µght   0.105     Mail   Total   EPA 1640   0.135   µght   0.005     Mail   Total   EPA 1640   0.135   µght   0.005     Mail   Total   EPA 1640   0.135   µght   0.005     Total   EPA 1640   0.125   µght   0.005     Total   EPA 1640   1.25   µght   0.005     Total   EPA 1640   1.25   µght   0.005     Total   EPA 1640   0.25   µ	Copy group)		Tolal	EPA 1643	5.044	J.Sri	0.008	00	-	A.
Total EPA 1640 1.506 1904 0 U**   Total EPA 1640 1.586 1904 0 U**   Total EPA 1640 1.58 1904 0 U**   Total EPA 1640 1.58 1904 0 U**   Total EPA 1640 1.0 1904 0 U**   Total EPA 1640 0 U**   Total EPA 1640 0 U**   Total EPA 1640 N.D. 1904 0 U**   Total EPA 1640 N.D. 1904 0 U**   Total EPA 1640 0 U	Copy (GC)		Total	CPA 1843	2.74	, tin	0.005	60	-	ž
Total EPA-1640 0.506 µg/L 0.005  Mil Total EPA-1640 1.58 µg/L 0.005    Total EPA-1640 1.58 µg/L 0.005    Mil Total EPA-1640 0.555 µg/L 0.005    Total EPA-1640 0.555 µg/L 0.005    Total EPA-1640 0.029 µg/L 0.005    Total EPA-1640 0.029 µg/L 0.005    Total EPA-1640 0.029 µg/L 0.005    Total EPA-1640 0.025 µg/L 0.005    Total EPA-1640 0.025 µg/L 0.005    Total EPA-1640 0.025 µg/L 0.005    Total EPA-1640 0.025 µg/L 0.005    Total EPA-1640 0.025 µg/L 0.005    Total EPA-1640 0.025 µg/L 0.005	Irch (Fe)		letol	EPA 1643	12.4	184	9	0.025	-	ž
MA11         Total         EPA 1640         1.58         μμλ         0.005           ,Mc)         Total         EPA 1640         £ 0.315         μgh         0.305           ,Mc)         Total         EPA 1640         0.555         μμλ         0.005           11         μgh         0.012         μgh         0.015           1 coa         EPA 1640         N.3         μgh         0.015           1 coa         EPA 1640         C 0.37         μgh         0.005           1 coa         EPA 1640         0.125         μgh         0.005           1 coa         EPA 1640         0.125         μgh         0.005           1 coa         EPA 1640         0.125         μgh         0.005           1 coa         EPA 1640         0.25         μgh         0.005           1 coa         EPA 1640         0.25         μgh         0.005           1 coa         EPA 1640         0.25         μgh         0.005           1 coa         EPA 1640         0.25         μgh         0.005           1 coa         EPA 1640         0.25         μgh         0.005           1 coa         EPA 1640         0.25         μgh	Loso (Pb)		Total	EPA 1640	3.506	PO4	0.002	60	-	4
Total	Метретера	-	Total	EPA 1640	1.58	, in	0 205	00	-	¥
Initial   Tota   FPA '640   13   198   9.085	Marsay (19)		Total	EPA 1640	E a.uc§	ų lin	0.005	10.0	-	Ą
	Mohtodanim, (t	(ig	TOP	FP4 -640	ţ	₽0n	9008	<u>0</u>	-	4
	Kickel (Nii		Tota	CPA - 640	0.555	rith'	0.005	60	-	쉳
3;         Total         EPA *f40         NJ         μg/L         0.035           ΓΙ         Total         EPA *f40         C 0.3*         μg/L         0.035           Τολε         FPA *f40         0.15         μg/L         0.035           (Τ)         Total         EPA 1840         1.25         μg/L         0.035           (Τ)         Τοταl         LPA 1840         5.24         μg/L         0.035	Sep. 198		<b>2</b> 01	EPA '640	0.026	룍	,00	era:	-	ź
	5 har (43)		EST	EPA ' 640	2	p0gg	0.035	104	v	42
Total FPA:1540 0175 µgul D025 (Ti) Total EPA:1840 1.25 ug/L 0:035 (Ti) Total LPA:1840 5.24 ug/L 0:035	Thallen Ch		Tota	CPA 1840	-0.0.	μbγ	0002	0.01		ž
(간) Total EPA 1840 1.25 ug/L 0.005 'York LPA 1840 5.24 ug/L 0.005	<u>                                      </u>		Total	FPA 1540	0 175	댿	5000	F.0.	ţ.	ź
. 120 − 120 − 224 − 120.	Thanlum (Ti)		T00a	EPA 1840	1.25	2000	0.005	0.01		ΑN
•	[LZ] diaZ		<b>T</b>	LPA 1840	5.24	J <sub>r</sub> tr	0.00%	0.01		ą.

MDL - Method Detection Linit (CFR 40 Part 136); RJ # Athalianan Lavel (SWRCR), KE Xaliunical Value below the R1, and above the MDLs ND\* Not Detected: NA\*- Not Applicable.

Callegola BLNF Certificale # 2263 19289 - RT

## CZG Marine Laboratories, Inc. 2020 De Amo Ulas Suíse 200, Lotanos, CA 915011-1708 (3101 533-518) TAX (310) 533-5184 coglabs Reported and

C. Italy	2.1 6 34					I			
	Southern California Edison	8 <b>E</b> 0)500				Ÿ	CRG Project (D:		24117
CRG ID4 19	19,290	Samula	Harle 34d Induka			l		ı	
Replicato #: Ri	_	Deachillen:	Fraisc 404121		9004 BHC004		Date Sampled:	38-Aug-C4	
Batch ID: 24	24117-10071	Matrie:	Scannie			٠.	Usto Recolved;	11 Aug-04	
Institution: ID	Institutions: ICPTAS #1 t-04500	Aliabot	P. Harsteman			-	Date Processed: Date Anabosed:	<b>₩</b>	
CONSTITUTION	74 119	Sila at Civian	METHOD			•	100	to Process	
		VO.	ALC. L CO 9 9 1	NUSUL I	UNITS	MDC	¥.	_	MOUNTAINE
Aluminum (All	, '	!	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1	ı	ا چ	MACTOR -	HANGE
Autimus (96)	. 4		CP (1940)	F.	ng,r	5	D 125	_	¥
Arsenie Aer	¥ ¥	10191 1-1-1	LPA 1543	0.12	nû,	0.0	0 015	,	ğ
Bendim (se)	= ,		EPA 1640	165	18	504	5,015	,-	¥
Cedal in Cro			≣PA 1640	F C C 05	ኮንሲ	9000	ď.0,	-	<b>5</b>
(O) THE SEC.	~ .		EPA 1340	3,025	hg/L	5.005	H.0	_	7
	<u>°</u>		FP3 1840	0.725	.pq.	9000	100		٠ <u></u>
(cg) [6:00]	21		FPA 1840	0 355	, igh	pods	5 5		9 2
Copper (CII)	o_		EPA 1640	=	, February	900			2 ;
(3=1 uou	Ţ		EPA 1340	2.5	1/24	190	520.0		I 5
LRAIN (PD)	ů	Total	FP# 1640	0.152	Non	0.365	100		£ 3
(CIV) osacetinala	450 I		EPA 1640	12	1 9	9000	5 6		£
We tury (Hg)	EIN_	_	CPA 1540	10005		200	5 5	,	<u>ş</u>
Molybdenum (Ma)	loic?		E.=A 1640	101	1	8 6	199	_	4
Mose (Nr)	Total		FPA 1041	979	1		15.0	-	<b>\$</b>
Seenum (Se)	. L		504 4640	0.00	-AKr	0.0	94	_	SN.
Silver (Ag)	7.0		0707 000	<b>6</b> 2000	냽	00	5103	•	ž
Jelium (II)	<u> </u>		001 000	2	Jęr.	5000	10.0	-	ž
Tur (Sn.	5 ]		FPX 1041	= 0.006	18c	3,006	100	-	2
Therium (1.)	<u> </u>		FF2 1640	□ 3.600	hgy	0.005	60	_	44
7.00 mm (11)	Exal		EPA 1840	Q:805	11g/-	0.005	601	_	9
(m) (m)	¥10F		<u>፻</u> ፬ሷ 1 <b>5</b> 40	878	L/B/L	5000	101		. g
									•

MD1.—Method Beneting Lamit (CVB 40 Part 136): El = Maximum Level (SWECB); Ell Estimated Value befor the RL and absent to MD1; ND- Not Botecial; NA- Not Applicable.

Cauforoda 33 AP MerchBoarte p 1344 19290 RJ

# 2020 Del Airo Bina Sune 2012 Terrance SA 190501-1206 (310) 533-5190 FAX (210) 533-5003 crops a gestoglogal met

Client	Southern California Edison	fornia Edison				٦	CRG Project ID:	ı	24117
CRG IDS: 19 Reblicate 8: R2	19289 R2	Semplo Description:	Units 182 Outfall Protection 21	Compasse	Compassa RBiO4-6/10/04	ää	Date Sampled: Date Described:	t: 09-Aug-04 € 18-Aug-04	2 2
Bartch ID:	24117-10071	Matrice				i	Date Processed:	<b>=</b>	· •
:bildenition dual	important in press at the 4500	:lequene	P Persiberty			ã	Date Analyzed:	t: 20 Aug 04	<u> </u>
CONSTITUENT	74	FRACTION	METHOD	RESECT	UNITS	MIN	Ξ	DIL UTERN FACTOR	ACCEPTANCE
Akenjeum (A.)		Total	EPA 1640	19.5	Ę,	100	571.3	-	ž
Iс≳I ұлатіт∧	=	Total	CPA 1640	0.157	Jer	-d:0	0.015	-	ž
Arabic (As)		Total	FPA 1540	÷	7	. Pio	U.D15	-	3
36rylium (Be)	0	ecoj	EPA 1640	Ş	Jign	0035	100	-	ž
Catinium (Od)	T-	Tota	EPA 1840	HIDO	Ē	0002	0.01	-	¥
Choalum (Ct)	E.	四日	EPA 1540	0.905	10	50.00	1.1.1	-	Ā
Coball (Co)		Met I	FPA, 1940	0.045	Teger Teger	5000	n.n.	-	ž
Copper ICul		Tobal	EFA 1640	2 63	<u> </u>	2000	9.34	-	ž
Iron (Fe)		IRIN	EPA 1640	12.2	1/84	6.01	0.025	-	\$2
Laed (Fh)			EPA 1640	0.49	III.L	0.005	1	-	ž
Маприневе (Мп)	Mn)	lelo_	EPA 1840	1.58	F.	0.005	0.34	-	÷
Meroury (Hg)		RIC_	CPA 1643	F 0.005	1,61	0.00	10:0	-	4
(о/Д) станарским	P/01	Yotal	FPA 1643	9.39	-Jůn	4.003	90	-	A.
Nove (N)		Total	EPA 1640	3.522	hūų	9000	00	-	ş
Selentral (%)		Total	EPA 1640	7.97.F.	₽04	10.0	0.015	-	¥
S [ver (Ag)		Total	FPA 1640	¥	ирл	Q.ND5	601		ž
The Pilet		Total	<u>-</u> 59,1840	E 0.31	IIBJ.	900 u	60		Ą
To (30)		ĬĠ	። ማለ ተቡዛር	0117	الزر	0.308	10.7		NA NA
Transum (T.)		e pr	FPA 1940	134	Jiêr	0.105	100		ž
201(2)		Teta	EPA 1540	4 95	ž	0.005	0.01	-	ž

MDL» Verhant Betreben Lemit (CFR 40 Part 134); RL» Mannount Level (SWRC'R); For Estimated Value below the RL and above the MDL. Nite Nort Betrands, NA: Nort Applicable.

### OFG Warine Laboratories, Inc. 2012 Tolorios, CA 2050-1206 (3:0) 525-5190 FAX (3:10) 533-5302 cropsos Respubblines

Client:	Southern California	mia Edison				Ü	RG Pro	CRG Project ID:	24117
CRG MOUNT: 59 Replicate 41 A1	19291 A1	Sample Description:	Uniss and Origan Project (C412)	იოგიაცა გაგენ-გრერა	5,04-8/19/04	88	Date Sampled: Date Recolved:	d: 09-Aug-04 d: 11-Aug-04	Z 4
Batch ID: Instrument:	24117-30073 IDPMS #1 HP4560	Matrix:	Saawater P. Hershelman			88	Date Processed: Date Analyzed:		* *
CONSTITUTE	:	PRACTION	метнов	<b>PES</b> 11.1	r r r	MDL	FL	DILLTON	ACCEPTANCE RANGE
Alamingati (All	=	- Inia-	EPA 1640		1,60-1	E.	0.175	-	M.
Antinoppy (Sb)		lele":	EPA 1640	37,06	1,61	6.61	0.015	-	ž
Arsent (AS)		Tolei	EPA 1640	1.54	hyk't	13.0	200	-	VIV.
Bendium (Be)		Total	CPA 1643	À	nii.	0.005	60	-	ΔN
Cada Jan 10d;	#	Talal	EPA 1643	0.527	1001	2000	90	-	ğ
Chromum (Cr)	_	Tofal	EPA 1643	908.0	hth,r	QMT.	50	-	¥
Lobel (Fc)		Total	EPA 1840	0.384	nd w	SIM.C	60	-	ΔN
Copper (CL)		Total	6PA 1643	1.25	FG4	0.000	000	-	Ą
Pon (Fel		lotal	FP4 1640	10.2	PU-L	5.01	0.025	-	ž
Load (PB)		Total	EPA 1640	1.14		0.305	100	-	ž
Mangareses (Art)	(**)	Tota	EPA 1640	2.03	ӈ	O JUS	504	٠.	ğ
Mercury (199)		Total	FPA 1640	č	191C	0.005	00		ź
Molybrenum (Mn)	(Mn)	Tota	CPA - 840	981	ήęς	0.335	P.O.		ž
Ackel (Ni)		Total	EPA 11540	D 54.7	ηťr	0002	100	,	Ź
Seemur (Su)	_	1841 1841	FPA 1540	200	Just T	10.0	0.015		ž
Short (Ag)		T043	EFA 1840	2	ц	80,00	LC.	•	4
Talkin (T)		Tebi	EPA 1540	E B 008	rgd.	5000	101		4
(ug) u.		Tolel	EPA 1940	E 0 009	ra't	0.005	10.0		2
(Lineary)		Total	EPA 1540	0.992	Jér	100	[]	-	2
ZPC(Zr)		Icial	FPA 1540	32.4	ē	6003	10.0	-	ž

MDL-Melbod Deloctus Lindt (CPR 40 Part 136); R1 = Minimum Levil (SWHCR); P.s. Kalimated Natur behavior the RL and above the MDLs NP-Net Detected; NA = Not Applicable.

Cationau ELAP Certificate n 23st 1929) - Ri

# 2020 Del Amo Brad. Suto 200 Torranco, CA 50531-1206 (310) 525-5193 FAX (313) 533-5033 cry abs@stroylubal.rec

- Fred	Client Southern California Erlingen	mie Edieon				ľ	00	CDC Declare ID.	24447
	omen demon	ING POSON				•	,		£#117
CRG (Dat: 19297 Replicate #: LCM*	19297 LCM*	Sample Description:	avac	LCM-CR6 Seawaler	Seawaler	ää	Date Sampled: Date Received:	# 10	
Beich ID:	Batch ID: 24117-24117	<b>Matri</b> e:	Seamons:			ă	Date Proceeded	et. 23-449-34	R,
Instrument:		Analyst:	P Pershehini			Õ	Date Analyzod:	d: 20:Aug-04	94
CINSTITUTE	į	FRACTION	<b>G</b> OELL3W	THESTIT	CNITS	WIN.	'II'	DILUTION	ACCEPTANCE RANGE
Usnusm			EPA 200.8	문	щů	-	u:	-	ν V
Boron (R)			EPA 200.8	<b>4</b> ⊕	Agn.	-	ın	-	ž

MDL- Method Detection Limit (CPR 40 Part 196); RL: Minusum Level (FWRCR); K- Katimatral Value belon for HT and above the MDL, N11 Net Detected: NA= Not Applicable

Cabiomia ELAD Ceminate # 2261 JYZH7 LC'NO

### 2020 De Ann Blad , Suile 200, "unarce. CA 90501-1235 (310) 533 5190 FAX (310) 532-5503 crylehs@bbog obalnel

	:								
Chent:	Southern C.	Client: Southern California Edison				o	RG Pro	CRG Project ID: 24117	24117
CRG ID#: 19287 Replicate # LCN2	19287 LCIA2	Semple Descriptions	0.450	LCM-CRG Seawaler	Seawaler	<b>a</b> 6	Data Samplad: Oata Received:	= ==	
Batch IO: Instrument.	Baten IO: 24117-241*7 Instrument.	Matrin: Analyst:	Seewpler P. Horshelman			80	Cate Processed Data Analyzaet:	Cate Processed: 23 Aug 04 Data Analyzaet: 23-Aug-04	ಕ ಪ
CONSTRUENT	.XT	PRACTION	MLTROD	RESULT	CNIES	X	5	NOTECTION BACTOR	ACCEPTANCY RANGE
mirres:			EPA ZOD &	2	P/g/L	-	u	-	Ź
Boror (B)			FPA 700 S	87	ፑያኒ	-	K!	-	2

MPL-Steffood Defaulton Justiff (CER 46 Just 1385, K) — Maimon Javel (SWBCB); En Estimated Value below the HL and allowed the MOLEND-Not retected: NAT hat Applicable.

California 3 LAP Configure # 1260 (324)

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### CEG Marine Laboratories, 9nc. 2021 Les Arro Biog. Suite 200. Torrance, CA 92001-1206 15101 533-6190 FAX (310; Suite 200 reglass generalment

·						. :		·  -  -  -	
Cllent:	Clent: Southern California	alifornia Edison					CRG Pro	CRG Project ID:	24117
GRO IDN: 19289 Repressor: R1 Betch ID: 24117 Instrument:	GRO IDM: 49288 Replicato #: R1 Sertin ID: 2411724117 Instrument:	Samule Description: Matrix: Analyst:	Unils 142 intako Projeci 404 121 Sebrake P. Hortzeinen	Геринасти:	Composepa Risko <del>d S</del> utgody		Dato Bampled: Dato Receivad; Dato Processed: Date Analyzed:	d: 03-Aug-04 3d: 11-Aug-04 3ad: 25-Aug 04 3d: 23-Aug-14	\$0.00 Pd
CONSTITUENTS		FRACTION	MEDIOO	HESC).T	SINA	Ē.	<b>a</b>	DITLITION FACTOR	ACCEPTANCE RANGE
Бапит			FPA 200 8	문	-gr	-	90	-	a a V
Bondo (B)			EnA 200.8	4 82	mgrL	-	a		ž

MDL- Method Detection Limit (CPR 40 Part 136); RL- Minimum Level (SW-RCB), R - Xethalled Value helen the RL and above the MDL, NIE Not Detected; NA - Not Applicable.

California RCAP Certifinate U 2361 99288 XI)

### 2320 Dol Amo Blod., Sufe 230, Towards CA 60601-1200 (310) 553-5150 FAX (3:0) 553-5003 urglabs/@sugakaslnet

	. * * 					. :			
Client:	Client: Southern California Edison	omia Edison					CRG Project ID: 24117	ct ID:	24117
CROL IDE: 1929) Replicato P: R: Batch ID: 241-7- Instrument:	GRG ID#: 19299 Replicato #: R: Batch ID: 241-7-241-7 Instrument:	Sample Description: Matrix: Ausfyst:	Livis 162 Colfel Project #06*21 Snawpler P. Heishelman	Composite Manua-911004	9014-97C/04		Oate Sampled: Date Rocerved: Date Processed: Date Anafrzed:	23-Aug-04 23-Aug-04 23-Aug-64 523-Aug-64	= 4 = 4
CONSTITUENT	¥	FRACTION	фондар.	MESULT	UNITS	kını	10 Ta	DILCTION	ACCEPTANCY RANGE
Barism Eboon (A)			LPA ZIGB FFA 2008	ND 4.95	πያነ πφ1		מט: עם		<b>≱</b> ≨

MDL - Niched Retector Land (CVR 40 June 136); R1 - Madmin, Josef (SWRCB); R1 Estimated Value below the R1, and also settle MDL - Nin Detectod: Nat Potential National Research

California E LAP Certificate # 2261

ĸ

	20	<b>ORG Marine Laboratories</b> , 9 <b>nc.</b> 2020 Del Ame Byd., Suho 231, Thrance GA 90501-1206 (3:0) 505-50 FAX (310) 505-5003 equat-035-000baskinet	OXG Marine Laboratories, Inc., 10c, 10c, 200, Invance CA 20501-1206 (3:0) 535-57: 50 FAX (310) 533-6033	Laborator 1663:030-5:00 F	<b>Wes, 9mc</b> AX :3101 555 503	ry e deligie	leddgucs@i	ŭ	
						 .: <u>.</u> .		" . "! :	
Client:	Southern California	alifornia Edison				١	CRG Project ID:	ect ID:	24117
GRG IDE: 199 Rophsato F: R1 Batch ID: 241 Instrument:	CRO IDS: 79200 Ropelsato 8: R1 Batch ID: 24117-24117 Instrument:	Samplo Bescripben: Matric: Analyst	Unts 3 <b>5d Intako</b> Project <b>604121</b> Seawaber Pilifersheimin	Composite 9	Companies SOOD4-8/10014		Date Sampled: Date Rocelved: Date Processed: Oste Analyzed:	09-Aug-04 : 11-Aug-04 d: 25-Aug-04 : 25-Aug-04	64 41 40 40
CONSTITUTORY	F	PRACTION	METIOD	RENELT	\$TIN;1	MIN.	เ	DILLTTON PACTOR	ACCEPTANCE. RANGE
Bancm Banco (P.)			EPA 200.8 EPA 200.9	5. 1.	пд- 1121		ec us	 	<u> </u>

MDL - Method Detection Limits (CER 40 Foot 336), RL: Molinean Level (SWRCR); E.- Fazimand Value helyn the HL and above the MDL; M3: Not Detected MA Not Petersed War Springer (CER 20 Applicable).

California BLAD Certaficace # 2360 0626

## 2020 Del Aniu Blad., Suite 200, Tanarce, CA Sudot 1235 (310) 532-5100 FAX (3"0) 532-5003 orgistas@ssuppositivet

						:				7
Client	Southern Ca	Client: Southern California Edison					RG Pro	CRG Project ID: 24117	24117	ŀ
CR6 IDE: 19291 Replicate #: R1 Batch ID: 24117 Instrument:	CRG IDE: 19291 Replicate #: R1 Baich ID: 24117-24117 Instrument:	Sample Description: Matrix: Analyst	Unis 384 Oufel Project #04*21 Seswelet H. Hershelman	Composite	Composes 8/0/04-8/10/04		Date Bamphad: Date Received: Date Processed; Date Arrefrond:	d: 09-Aug-O+ d: 11-Aug-O4 ed: 23-Aug-O+ d: 23-Aug-O+	<b>ಕಕಕ</b> ತ	ı
CONSTRUCENT	۲۲	FRACTION	MURIOD	FESCO.7	1.8113	ž.	Ta.	MULTION BACTON	ACCEPTANCE RANGE	١
Satur			FPA 2008	2	mqiL	-	ĸ	-	2	
dorar (B)			EPA 200.6	-E-12	mg!L	-	u>	-	ž	

16361 MD3 = Merked Detection Lamit (CTR to Part 136); RL- Nimmum Level (NWRCB); E\* Exiliazion Value Infon dor RL and above the MD4; ND\* No Detected; NA\* Not Applicable.

Cationing KLAD Certificated 2361 굨

### CRG Marine Laboratories, Inc.

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2023 Del Amo Blud , 50th 200. Toverner, CA 90501-1206 (311); 533 5130 FAX (310) 539-5303 crylabs@ebcglobal.net	ŀ.		;; ·	1
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		1. T						  - '2'	
Client: Sou	Client: Southern California	Edison -				٦	CRG Project ID:	ë	24117
GRG JDF: 19285 Roplicate R: R2 Batch ID: 24117 24117	7.24117	Sample Description: Walrie: Analyst:	Jinix 167 Outsell Project #C4121 Sepangry: Fleisthofman	Compusion Bib/34 Extent4	04 &10C4		Date Sempled: Date Received: Date Processed: Date Analyzed:	03-Aug-C4 11-Aug-C4 25-Aug-04 20-Aug-04	
CONSTITUENT	FRACTION	NOLE	WITHOU	RXSLLT	CNEES	SIDC.	RT. PHI.	PACTOR	ACCEPTANCE RANGE
Damun Hinon (E)			LPA 200.9 PPA 700.8	UP 5.08	ngi.	٠.	i no		2 Z

MDL- Nethor Detector Lamil (CVR 40 Part 135); RL - Maximum Lord (SWRCK); Nr Estimated Value below the RL and always the MDL. Nin- Not Detected; NA- Not Applicable.

California E LAP Confidence # 2262



### PROCEDURAL BLANK RESULTS

### CEG Marine Laboratories. 9nc. 2020 Dei Amu Blod., Suite 200 Torrance, CA 935117-1506 1213; 533-5180 FAX (310) 533-5005 cyllabs: Sabequetal.ne.

CRG (Dt. 19 Replicate f: B1	Southern Call.	Southern California Edison		i		Ū	CRG Project ID:	ect ID:	24117
	19286 81	Sample Description:	QAQC	Procedura Blank	dank	58	Carle Sampled: Date Received:	÷ين	
Batch ID: 2 Instrument: 10	Batch ID: 24117-10071 instrument: ICPMS #1 HP4500	Modela: Analyst:	Ol Water P. Hershelmen	•		388	Optio Procossed Date Analyzad:	18-419-04 14-53-413-04 14-53-413-04	11
CONTINUES		THACTION	MUTHOD	EXST.C.C	CNITS	MDL	⊉	DILUTION	ACLEPTANCE
Al, milnuis (Al)		IEIC	EPA 1643	9	hBr.L	   <u>-</u>	0.125	-	4
Antimomy (Sa)		Tolel	CPA 1843	宁	1,61	10.0	0.015	-	ž
Assente (As)		Lotal	LPA 1643	Ë	J101	5.01	C.015		Ν
Bary@ur. (86)		Total	EPA 1640	Q.	ngr.	3.00%	100		ž
<u> </u>		Toţal	EPA *640	ᅱ	퍤	0.30\$	000	•	S.
Ohramiam (Gr)		Total	EPA : 640	ç	μgγ	0.003	10.0	-	ž
Cohat (Cc)		gal	FPA 1540	Ñ	ηŧ	0.005	100	-	ž
Cobbe, (Cn)		6001	EPA 1640	5	ηÉτ	0002	100	-	ž
ranı (Fer		T08-61	6PA 1540	9	ρčn	00	0.025	-	ž
Lead (Pb)		ᄪ	EPA 1540	£	ra'l	4000	1.1.1	-	Α.
Manganese (Mi)	2:	IHI-	FFA 1840	ç	Jęr	500 3	n.n.	-	ž
Mercury (11g)			Enk 1640	9	ž	5000	0.3	-	ž
Molyhdanum (Ma);	ä	_   [] [] [	EP & 1640	ç	Į,	9000	<b>1</b> 1	-	3
National (N.)		lela'-	EPA 1640	皇	PSYL	1.005	131	-	42
Selanium (Se)		lalcT	EP4 1043	Q.	2	0.01	0.015	-	ş
Slock (Ag)		Total	FPA 1643	9	Jyth	U.MCS	90	-	MA
dE) maight.		lejoj	EPA 1643	夕	thd	4 NC.5	031	-	\$
Tm (\$-1		Total	LPA 1640	EN.	@n	0.005	10.0	-	3
THarbon (TI)		latol	FPA 1640	¥	温	200.D	60	-	4
Zinc (Zn)		Teta'	EPA 1840	Z	ııBıı	9000	50	-	ş

MDL=Method Detection Limit (CVR 40 Part 136): NJ = Minimum Level (SWNCB), Ex Xstinuted Value below the RT, and above the MINIOND=Not because, NA+Net Applicable.

California BLAP Certificate # 2261 9376

## CRY Marine Laboratories, 9mc. 2000 Del Amo Byat. Sure 200 Tour 12 De (310) 523-6190 Fox 15131 533-5000 chy 1240 Byat 1200 Del Amo Byat. Sure 200 Tour 120 Del (310) 523-6190 Fox 15131 533-5000 chy 1240 Byat 1200 Del (310) 523-6190 Pox 15131 533-5000 chy 1240 Byat 124

					÷ :	•	.:		
Client	Client: Southern California I	difornia Edison				נטן	RG Proj	CRG Project ID: 24117	24117
CRG IDA: 1920@ Replicate R: 31	1928¢ 31	Sample Description:	೦೮೪೮	Procedural Sans	an.	8 6	Date Sampled:	4	
Betch 10: Jngtříphoni:	Beçci (O. 24117-24117 Jagurimient:	Mentrix: Analyst:	PHWater P. Hershalman			s ä ē	Dato Prococeed: Dato Americand:	Dato Processed: 23.Aug-04 Date Analyzed: 23.Aug-04	¥0.0
CONSTITUENT	,	FRACTION	METHOD	TISAR	STIVES	NO.	E.		ACCEPTANCE
١	! i	: 	1	1		!		FACTOR	RANGE
E THE			FPA 2008	Ω.	J, E	-	40	-	ž
iai uorca			FPA 200.8	g	Age.	-	Ľî.	-	¥1

California P.LAP Certificate U.2261

MDJ.— Merkyd Detechon Lawit (CFR 40 Part 136); RL.— Missmann Level (NWRCR); En Eximated Value below the RL and above the VDL; ND=Net Retected; NA - Not Applicable.

⋾



# 2028 Del Ama Olivd., St. te 230, Towarde. CA 80501-120: (310) 533-5190 FAX (310) 533-5003 ergints@ediagonia.co.nel

CRG IDM: 1920? Sample Replacate 8: MS* Generapidon: Batch ID: 2417-10071 Matrix: Instrument: IDM/8 #1 HP4500 Analyst  CONSTITUTENT ANT TROCK	OAOÇ  Stawater P Heistretman State Converse 119 98 98 77	USH EVALUE	Date Sampled:  Date Received:  Date Processed: 18 A ACCEPTANCE RANGE		74111
41. 7. CD/1 Matrix: 2PVS #1 HP4600 Analyst  METH3OD  METH3OD  EPA 1640	Strawater P. Heisterman Strawater Strawater Strawater Strawater The Brain Brain The Br		Date Processed: Date Processed: Date Analyzed: ACCEPTANCE RANGE		
METHROD  LPA 1640  EPA 1640  EPA 1640  EPA 1640  EPA 1640  EPA 1640  IPA 1640  EPA 1640  EPA 1640  EPA 1640  EPA 1640  EPA 1640	4	1	ACCEPTANCE RANGE	18 Aug 04	
### ##################################	m.	ı		COMMENT	
EPA CONTRACTOR OF A CONTRACTOR	対応に当			 	I
EPA FPA FPA FPA FPA FPA FPA FPA FPA FPA F	유	25,000	44 - 107%	8885	
EPA EPA EPA EPA EPA MO MO MO MO MO MO MO MO MO MO	ᇆᇳ	20,05	71 - 14%	PASS	
EPA PA PA PA PA PA PA PA PA PA PA PA PA P	큐	20 µg/.	472 - 152%	PASS	
EPA EPA EPA EPA EPA EPA EPA EPA		25 µg/-	59 - 12C%	PASS	
EPA FIN L'PA Me) GPA EPA EPA	÷	73 ligh	85 - 132%	SYV	
EPA CPA CPA (PA)	105	23 JUL	75 - 124%	SSVG	
EPA	92	25 upt.	77 - 128%	PASS	
CPA LIPA LIPA LIPA LIPA LIPA LIPA LIPA LI	#	2's pg/L	35 - 97%	28.88	
Fil LPAT	S	75,490	26 - 113%	PASS	
SPAT	1.0	20 µg/L	64 - 123%	6844	
MO! EPA1	88	1,651	68 - 117%	PA33	
EPA	Ξ	25 p.g/l	WCZ. 69	PASS	
EPA	97	25 µyı'.	58 - 115%	PASS	
	E	25 µgr.	55 - 1 : 0%	PASS	
Siver (Ag) CPA 1040	113	23 par	65 - 125%	PASS	
The firm (T) FPA 1643	*	23 Jan	65 - 110%	PASS	
Thi (54) EPA (54)	8	25,430	ō9 110%	SSVc	
Tilanium (f.) EPA 1540	52	20 55/1	85 - 133%	20,55	
Zinc (£n) ≓PA 1640	62	20 pg/L	62 - 108%	PASS	

MDL=Melbud Detection Light (CFR 49 Part 136); RL=Maintoin Layer SWRCB); RT Estabated Vallet Indow the Milland above the MDL View Not Detected; NA - Suit Applicable.

California XI AP Cardificate (f 2263

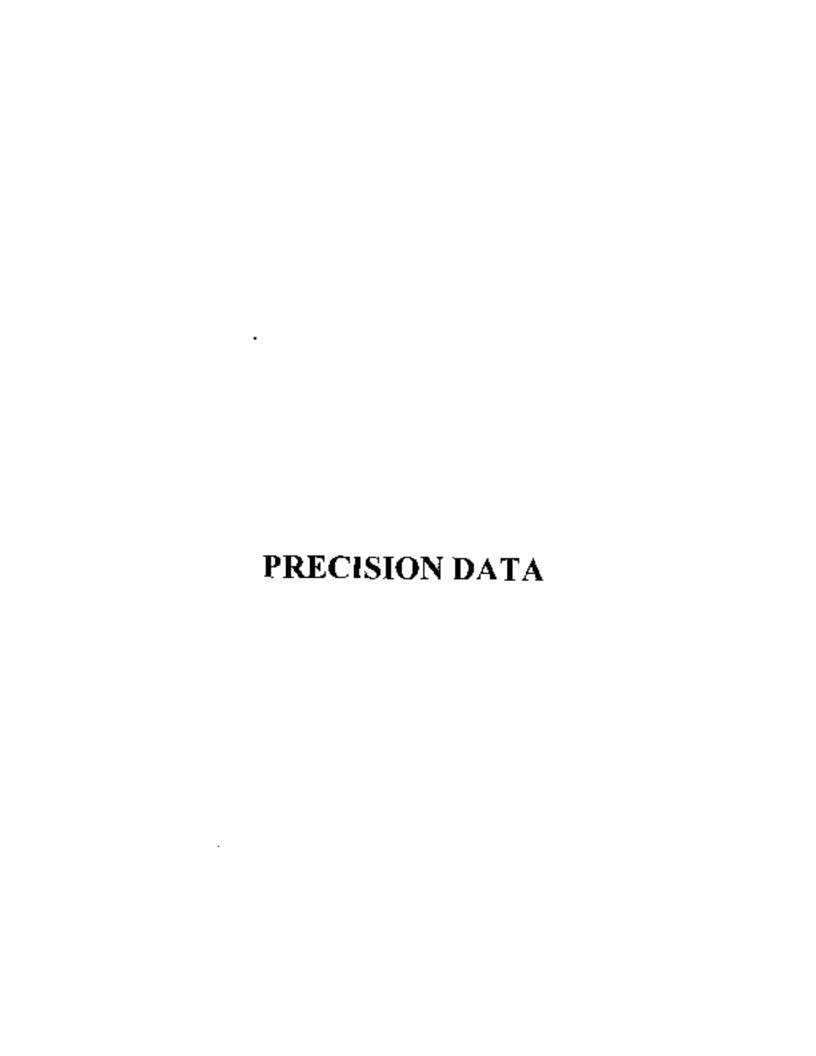
19287

## 2020 Del Ame Svoj. Sule 200, Torance, GA 90501-1208 (2:0) 533-513 cre ets@1900-00elnol

		İ			:	
Client:	Client: Southern California	nia Edison			CRG Project ID:	t ID: 24117
CRG IDI	19287	Sample	0040	LCM-CRB Snawaign	Date Sembled:	
Replicate #:	MS2	Oesemptions			Drife Renebed	
Barton ID:	24117 - 11071	Matrici	Seawater		Date Processed:	18-6 per 204
irstvament:	Instrument: ICPMS #1 EP4503	Analyst	P. Hogheiren		Dute Anglyzed:	23-4-13-04
CONSTITUTION	ן ק	ЭКЛІОВ	Ď.	TRUE VALCE	AUCEFFANCE	COMMENT
Abunhum (A.)			   ဦ	- 20 par		PASS
Anthony (Sb)	2	EPA 1640	8	25 LQV	44 - 107%	PASS
Assemic (Ast		FPA 1540	BE:	20 lig/.	7* - 114%	9,455
Вегупіля (Ве)		FPA 1840	78	- S	62 - 113%	58.96
Cadminim (20)	=	EPA todu	F.0	25 µg·L	69 - 120%	PASS
(A) E . (B) (B)	·	EPA 1643	110	20 (4)	85 - 133%	FASS
Cubat (Col		EPA 1640	ş	20.00	75 - 124%	74.93
Copper (Dis)		CPA 1840	99	25 µg/L	72 - 25%	500
ingr (Fe)		LPA 1540	11	25,001	80.80	144 104 105 105 105 105 105 105 105 105 105 105
Leed (Pb)		EPA 1540	94	26 S		S S S S S S S S S S S S S S S S S S S
Manganese (Mr)	odr.)	EFA 1640	80	20 µg/-	64 - 120%	588d
Marcory (Hg)		EPA 1640	711	I provi	68 - 117%	5855
iow) canapadiny	(Woi	FPA '64)	ts	25,194.	50 - 125%	2885
Missel (NI)		ÉPA 1840	ä	25 µg·L	68 - 118%	PASS
Seerahi Se	_	L-94 1640	£	25 µg/L	\$5 110%	PASS
SING (20)		EPA 1540	102	20 Mg/L	E6-125%	PASS
That let I		EPA 134U	22	20 pg/L	86-:108	P088
Tin (Sn)		EFA 1640	95	25 1100	SH - 140%	PASS
		EPA 1840	123	20 μμλ	95 - 193%	PASS
Zinc (2n)		CPA '640	8	20 ugul	62 - 108%	PASS

MDL— Merbod Provision Laturi (CFR 40 Part 136); KLz Amminum Level (500 RCB); En Estamated Value below the RL and above the MDL; ND- Not Detector); NA- Not Applicable.

Canforms ELAP Centificany # 2261 1920: ASS



# OEG Del Ame Blod S. 1977 200 Terrance CA 80501 1236 (310) 523-5 50 FAX (3-0) 535-5037 crylete@sboglosalinel

	mie caison				CRG Project ID:	t ID: 24117
GRG (54): 18289 Batch (5: 24117 10011 Institutes (1011/15 #1 HP4501)	Sample Description: Matrix; Austral:	Unds 162 Oulfall Froject #ta*z1 Sezwater F Heist erran	Compusite u	Compusite transc 2/1984	Defe Sampled: Defe Recolved; Date Processed: Date Apartment	
CONSTITUENT	METHOD	1 2 2 1		% RPD	ACCEPTANCE	COMMENT
Aumining (All	EP# 1840		19.5	  -	i i gy.:	1 888
Antimorry (Sel	Eby .043	0 158	0.157	-	0 - 10%	PASS
(A)	CPA 1643	159	181	-	2008	PASS
Cadmium (Ld)	E-24 1840	0.021	0.019	5	4 - 30%	PASS
Chramital (C.)	EFA 1540	6.73	3,605	₽	0 - 30%	PA38
Custodin (Co)	EPA 1640	0.344	0.045	81	0 - 50%	P.A.35
upper (E.J.)	EPA -640	2.74	2.53	4	0 - 105;	PASS
III (Fe)	FPA 1840	12.4	12.2	4	0-10%	PASS
lead iPal	596.1640	909 u	643	EP.	300 · 0	3546
Mangarinse (Mis)	EPA 1540	1.58	<b>8</b> 0	7	3.0%	5509
Mersay (4g)	EFA 1040	Q.UUS	3.005	Ð	9. 4%	16.00 F
Malybdenum (Ma)	EPA 1040	ţ	9.30	9	9-36%	9888
Nokel (Al)	<b></b>	0.555	0.522	Ð	0 10%	PASS
Sedment (Se)	= 2A 1840	0.025	0.027	r-	0 - 30%	PASS
(1) viiile(1)	•	101	53	φ	6 - 302	5590
III (SU)	EPA 1640	0.125	4.447	7	20.50	Stand
Indrumy(1.)	EPA 1643	1.25	134	۰	96.40	<b>9.4</b> 00
Zriu (Zn)	EPA 1840	46.8	2 T X	u		;

MDL=Minking Detection Limit (CVR 40 Vars 136% PT ~ Maximum Lavet (NWRCB); E= Betimested Value below the RE and above the NDE; NB=Not Rejected; NA\* Not Applicable.

# 2220 Del Ama 3944, Surbs 220, Towarce, CA 809531-1200 (310) 522-5190 FAX (310) 623-5000 conjude 6000 conjude

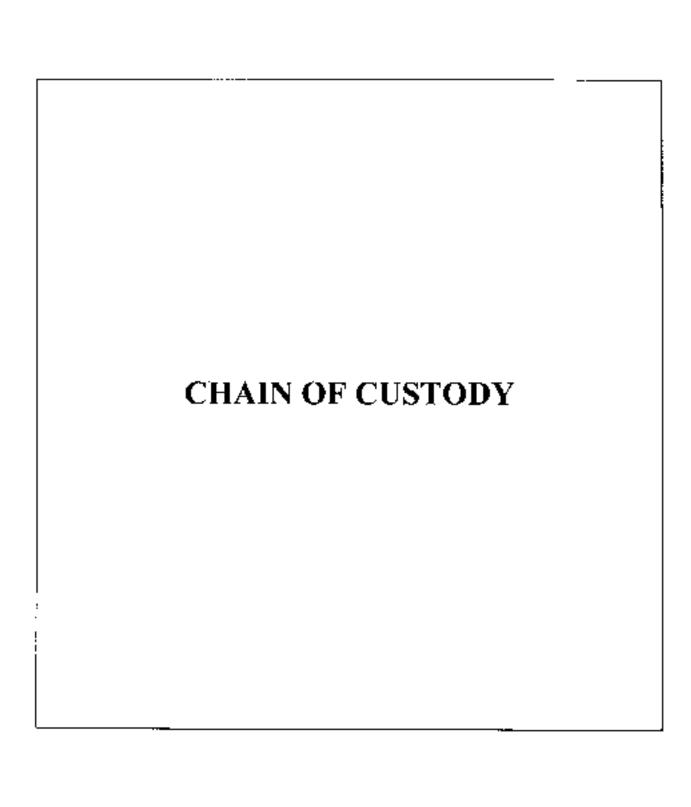
Client:	Client: Southern California	Nie Edin					
300	TOWNS CONTRACT	and CONSON					7
CMC NO.	19289	Samule	1 ln 3 4 4 5 0 4		יישר היים היים	110: 24117	
		Dascappion:	Propertion 124	36m 20s no 8/9/04-8/10/04	Oako Sompled:	09:Aup/04	Ι
Batch JD;	Batch JD; 24117-24117	Matrix	Senesier		Date Received;	1.4.90	
nebrumani.		Amalyet:	P Intervelage		Date Procesure:		
COMBITTUENT	<u> </u>	2011			Date Analyzed:		
:		MEIHUD	F4.				ı
			mark	Ode o	ACCEPTANCE	COMMENT	ı
Baron (B)			1 1 1 1 1 1	- mikr	FANGE	•	
			26; <b>≠</b>	508 3	1 1 2 2 2		
					***	NASK.	

California Ef. 43º Certificate # 2261 ADL- Michod Describe Minit (CPR-A) Part 136; RL- Minroun Level (SWRCB); E- Estimated Value belon the RL and above the Mist, ND- Not Detected: NAY Not Applicable.

## ORG Marine Laboratories, 9me.

Client:	Client: Southern California Edison	nia Edison				CRG Project (D.	· 10.
CRG IDE	19297	Sample Description:	cyac	LCM-CRG Seawater	waler	Date Sampled:	1
Batch IO;	24117 10071	Holink:	Seswater			Davie Recolved:	
instrument:	Instrument: 10 PAS 41 HP450B	Analyst.	P Horsthelman			Onte Analyzed:	23-Aug-24
CONSTITUENT	=	METHOD	M81	ZS <b>II</b> I	X RPD	ACCEPTANCE	COMMENT
1	!	1	% Recovery	A Rocovery	1	RANGE	
Aunum (A)		≟2A.164C	119	i S	٦	- 50   - 5	1 bass
Anchigung (Sb)		624 1360	33	Ħ	ĸ		5300
Arcente (%s)		EP4 1040	ė	88	m	0.10%	F455
Derythum (86)	_	LP4 *640	7.	27.	ø	6-36%	9488 8488
POH CAMPES	_	EPA 1640	ng.	63	4	11.30%	PASS
Chambratta		EPA 1840	Ŧ	113	•	10 - 30 ×	PA 23
Coball (Cn.)		52A 1640	စ.	900		0-306	8886
701 Jags 1		FPA 1643	95	ᇜ	q	5-36%	97/88
(a./ Lou		EPA 1840	윺	F.	ņ	0 - 10%	PASS
Lean (Ph)		EPA 1640	E:	3	-	0-40%	PA33
Nangarese (An	Ē	EPA 1640	52	*	-		2887
(Marcany Cha)		EPA 1840	23	417	28	8.50%	PASS
Maybachum (Ma)	Mo:	C34 1640	ž	-69	•	% .c	8889
McDool (N)		EP# 1640	98	90	m	0.866	5576
Selentra Ide		EPA MMO	=	85	จา	C-10%	55/4
Siver (Ag)		EPA 1640	110	102	œ	C - 10%	1453
I hallum (T)		3PA 1540	7	ñ	c	200.0	3044
4 (80)		EPA 164U	8	200	Ŀ	. 6:±	5000
(L) water		C#9. V#9	:20	120	۰	9-348	2000
And (ZII)		FP4 '643	ā	E:	-	277	55VI

California El AD Certificate p 1261 19247 MDL: Molland Detection Links (CPR 40 Part 136), Rt.— Minemion Cet of SWRCB); I.– Estimated Value below the RL and above the VDL; NOF Not Detected: N.A.-Kut Applicable.





RESIDUENTO:

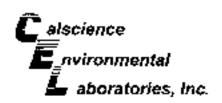
Power Production Profited Southern Cathonya Millar 1991 Semeste James, 2<sup>rd</sup> Mastr Vegatophysius, CA, Woolfd SHAWARES FOR

Southern California heren Account Pag ettr Dricken M.C. Bea 707 Roscared, CA 91779

### SAMPLE ANALYSIS MEMORANDUM TO:

CRG Manne Laboratories, Inc. 2020 Del Amo Blvd., Saite 200 Tomanse, CA 90383

Southern Colif. Edition P.O. Nata Picase return and direct inspices In all correspondence refer to got	ias Shawa	Religios A001 Simmons (12)		220-6158-695,097 Mas: (7 <u>141895-0515</u> ste com
Sample(s) are submitted for trea	troccation y audition at	described bei	OW.	
Sample ID	Duse Collected	Time Collected	Description/Analytes	
Duits L&2 Intake Composite Units L&2 Ourfall Composite Units L&4 Intake Composite Units L&4 Outfall Composite	879,04 - 8719,04 879,04 - 8719,04 879,04 - 8715,04 879,04 - 8715,04	<u> </u>	Frace Metals in Seawater Trace Metals in Seawater Trace Metals in Seawater Trace Metals in Seawater	by Method 1640 by Method 1640
Special Instructions:			· <del></del>	
Please a	chment for priesity nalyze metals (So, , August 73.		da needed. r. Co. Pb. Hg. No. Se. Ag. T	1, and Za) by
, seption's	, reque. 1			
Chain of Correctly:	illeto 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 A	ANN SAL	non: 5/11/64
	i Unite			Delc:
Rolling state of My	June	—; -		T



August 31, 2004

Shawn Simmons Southern California Edison Material Testing Laboratory 7351 Fenwick Lane Westminster, CA 92683

Subject: Calscience Work Order No.: 04-08-0549

> Client Reference: 04121

### Dear Client:

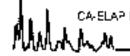
Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/11/2004 and analyzed in accordance with the attached chain-of-custody.

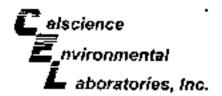
Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data. package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact. the undersigned.

Sincerely,

Calscience Environmental Laboratories, Inc. Paul Mead Project Manager





### Analytical Report

Southern California Edison Materia! Testing Laboratory 7351 Ferrwick Lane Westminster, CA 92683

Date Received: Work Order No. Preparation: Method:

Units:

08/11/04 04-08-0549 EPA 3520B EPA 8081A/8082 ug/L

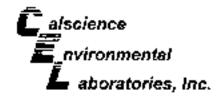
Project: 04121

Page 1 of 3

				.ub Samale	Dale		Ome	l3ala		aga i o
Clarc Sample Number	_			.ab Sambe <u>Num</u> iber	Colected	Масти	Prepared	Dale Analyzed	ÓU E	alch ID
182 Intake Composito			04-08-0	1549-37	0R/10/04	Адимона	08/11/04	08/13/04	0408	17L 10
Paremole:	Result	RL	<u>Β</u> Ξ	<u>Oual</u>	Patemeter		Resu	U RL	DΕ	اهبات
Alaha:EMC	ND	0.10	•		4,4'-DBT		ND.	D. 10	1	
Gamma-8 Hii	NID	0.10			Endosufan Sul	ísie	ND	0.10	i	
Bela-DI C	ND	0.10			Methagychlar		NID	0.10	i	
Heptachlor	ND.	0.10	1		Chlomane		ND	1.0	i	
Celia-RHC	ND	D 10	1		Tricegoriene		NO	7.0	:	
Arctio	ND	C 'C	1		Endrin Ketana		NBD	3.13		
deplacator Epocate	ND	6.10	1		Arabion/1016		NO NO	1.0		
Endosullar	ND	C.:C	1		Arocor-1221		60	1.0	4	
Deldnr:	NC	0.16	1		Aradar-1222		KD.	1.0		
\$4-0DE	NE	П 10	1		Aradar 1242		ND	10		
En <b>d</b> rin	ND	0.10	i		Arodor-1248		ND.	.0	1	
Findrin Aldel:yde	СN	a.17	i		Angelor-1254		ND	, D		
44-090	NO	0.10			Arockir-1250		NC	1.0	- ;	
Erdosufan II	NO	0 10			Arccior-1267		ND	1.0	- :	
Burroganas,	REG (%)	<u>Gonnel</u> Umils		Qual	<u> Зичгодзяве</u>		REGIS	S) Control	'	الإنابي
ecac±ilorobipheny	65	50-135			2.4.5.6 Telrachi	отыт-Хунге	79	<u>Limig</u> 50-135		
182 Outfall Composite			04-08-0	549-38	08/1004	Aquento	08/11/04	08/13/04	040&1	1L10
-grame <sub>ter</sub>	Reach	<u>RL</u>	DF	القدري	Earameter		Resul	J BL	Œ	Qual
Upha-6-10	ND	3.10			4.4'-DDT		ND	D 10	1	340-01
iamma-890	ND	0.10	1		Endosolfan Suf	MP	ND	D 10	i	
leta 340	NO	0.10	1		Melhowching	•	ND.	0.0	1	
leptachlor	NO	9.10	i		Chloreane		ND ND	1.0	,	
Nela-BHC	NED	0 10	i		Тохарчата		NC NC	.0 20		
ldrin	ND	0.10	i		Endrin Kelono		ND CM	2 V 0 1 C	1	
laplachio: Eposide	ND.	Č. 1D	i		Arocar-1016		NO CM	1.3		
ndasuffan	ND	6.40	- 1		Aroder-1221		DIA	1.3	1	
lecrn	ND	C.1C	i		Arader-1737		MO	1.0		
.dOO.5	ND	0.10	•		Aroclor-1242		ND ND	1.0		
ndrin	ND	3,13	,		Aroclas-1248				-	
ndrin Aldehydd	ND	3.13	:		Aroclo~1254		ND HD	10		
4-DD0	CN.	0.13			Arocko~1260		HD	10	1	
rcosullau II	77	0.10			Aracla:-1262		ND	10	1	
Serenger 12	RE <u>Ç (%)</u>	Control		Ωva	5u <u>rforales</u>		ND REDIR		1	Qua,
ecachiorasiphenyl	65	<u>Dovis</u> 50-135			2 4,5,6-1 elrachi:	Po-m-Xylene	82	<u>பாப்சி</u> 50-135		

RL Reporting Limit . | Fif - Diluton Factor

Qual-Quarters



Southern California Edison Material Testing Laboratory 7351 Ferrwick Lane Westminster, CA 92683 Date Received: Work Order No: Preparation: Method:

Units:

08/11/04 04-08-0549 EPA 3520B EPA 8081A/8082 ug/L

Project: 04121

Page 2 of 3

Cieni Sample Number				st Semple Number	Dete <u>Coll</u> ected	Wah ×	Date Prepareo	Date Anaiysed	QC B	alon ID
38.4 intake Composite			04-08-09	549-39	08/10/04	Ацинали	N811 \$/0 <b>4</b>	0B/13/04	04061	<b>1</b> L10
Parameter :	<u> 3esul</u>	ᇗ	DE	Qual	<u>Parameter</u>		Roay	t <u>3</u> L	D€	Qual
A pha-BHC	КD	0.10	•		4.45DT		ND	0.10	1	
Gamma-BHC	ND	0.10			Endosulfan Su	(fale	ND	0.40	1	
Beua-BI⁴C	ND	0.10	•		Mathoxychlor		ND	0.40	1	
Hepled/for	ND	0.0	:		Chlordane		NP	1.0	1	
Cona-RHC	NE)	0.40	1		Toxaphene		ND	2.6	1	
Acm	ND:	0.40	1		Endrin Relate		NEO	0.10	1	
Heplaantor Epoxide	NG	C.1C	1		Aradian-1016		CM CM	1.0	1	
Endosultan	ND	0.10	1		Aropart (221		NO.	1.0	1	
Dietdor	ND	0.10	1		Arodor-1232		СМ	1.0	1	
4.4'-DDE	ND	0.10	1		Arodor-1242		NO.	1.7	1	
Fodin	NΠ	G.4E	1		Arothr-1748		ND	1.4	1	
Endrin Alcehyde	NB	ш.; г.	1		Arodar-1254		GA	1.0	1	
4,4%DDD	ND	0.10	1		Arodar-1260		MΩ	1.0		
Endosullar il	ND	0.10	- 1		Arodor-1282		ND	1.9		
Sunesales:	REC (%)	<u>Contro</u> Limits		Quel	Surrogates:		REC (5	o) Control Elemen		<u>Gual</u>
Decachlorobiphenyl	55	504 35			2,4,5 6-Teorach	омни-Хуеге	78	50-135		
384 Outfall Composite			04-08-05	<b>549-40</b>	08/10/04	Aquecus	08/71/04	08/13/04	04061	1110
Havemeter	Resul	<u>RL</u>	DF:	Qual	Parameter	-	Fieaut	. RL	DΣ	Qual
Noha BHC	NO	0.13	1		4,4'-DDT		NU	C.10	1	
Gamme-BHC	ND	0.13	1		Endosu (an Sul	علدا	NC	C.10	1	

<u> Havameter</u>	Resul	RL	DF:	Qual	Parameter	Беаці	RL	DΕ	Qual
Alpha BHC	ND	0.13	1		4,4'-DDT	NE	C. 10	1	
Gamme-BHC	ND	0.13	1		Endosulian Sulfate	NC	C.10	1	
8ea-BHC	NO.	0.10	1		Methacychlar	ND	0.10	1	
H <del>eptachia</del> r	NO.	0.10			Clikintarie	ND	40	1	
Dete-BHC	ND.	0.10	-		Toxanhene	ND	2.0	1	
Aldrin	ND.	D 10	•		Fadrin Kelene	NO	B. 2D	1	
Hopsachlor Epoxide	ND	D 10	•		Arador (016	ΝĐ	1.Ĝ	1	
Erdosufan I	ND	D. 10	•		Arador 1221	ND	1.Ĝ	1	
Dieldrin	ND	0.10	- 1		Arador-1232	ND	1.0	1	
4,45DOE	ND	0.10	- 1		Alpador-1242	NO	1.0	1	
Enden	ND	0.10	1		Aradia-1248	NO	1.7	1	
Endon Aklehyde	ND	0.10	1		Arbdier-1984	ND	1.5	1	
4,45DDD	ND	0.10	1		Arbdier-1260	ND	1.3	1	
Endosullan il	ND	8.°E	1		Aroder-1262	ND	1.0	1	
Surrogales:	REC (%):	<u>Control</u>		Qual	Surregalos:	<b>REC (%)</b>	Cornel		<u>೦</u> ಚಾರ
		Linds					Limits		
Decastricrobiohenyi	48	50-135		2	2,4,5 6-Tetraculoro-m-Xylene	7 <u>8</u>	50436		

KL-Mepotingtim1 .

DF - Dilution Factor ...

And the Condition



Southern California Edison Material Testing Laboratory 7351 Fenwick Lane Westminster, CA 92683

Date Received: Work Order No: Preparation: Method: Units:

08/11/04 04-08-0549 EPA 35298 EPA 8081A/8082

Project: 04121

ug/<u>L</u> Page 3 of 3

									90 2012
Charr Semple Nohiber Method Blank			⇔ 5ample <u>Nun</u> dier	Collected	Matrx	Date Prepared	Dagu Analyzeg	GC F	Ct dass
<del></del>		085-01-015-1,278		NIT	Aquestas	08/14/64	0843/04	0403	
Parameter Result Alpha-BHC ND Geroma-BHC NID Eeta-Brid ND Haptachter ND Detta-RHC ND Heptachter ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan a ND Endasuifan i ND Endasuifan i ND Endasuifan i ND Endasuifan i ND Endasuifan ii ND Endasu	BL 0 10 0.10 0 10 6 10 0 10 0 10 0 10 0 10 0 10 0	Df- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Quat (	Parameter 4.4-DD* Fixiosulfen Sur Mellkunchlor Chlordane Toxapherie Endrin Kelona Aroctor 1016 Aroctor 1227 Aroctor 1242 Aroctor 1256 Aroctor 1260 Avoctor 1260 Avoctor 1260 Surposites 4.4.5.5-Tetrachio		Sezut NO NO NO NO NO NO NO NO NO NO NO NO NO	(3) 0.10 0.10 0.10 1.0 2.0 0.10 1.0 1.0 1.0 1.0 1.0 1.0	2E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	One One



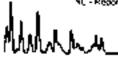
Southern California Edison Material Testing Laboratory 7351 Fenwick Lane Westminster, CA 92683

Date Received; Work Order No: 08/11/04 04-08-0549

Project: 04121

Page 1 of 10

Cient Sample Number			Lab Sample Nur	nber Day Collec		Mayrix		
1&2 Indoks			04-08-0549-1	<b>CB/</b> DB	#14	Адиесив		
<u>Parameter</u>	Result	RL	LXF-	Guaj	<u>Uniijs</u>	Date Preserved	<u>Daje Anarged</u>	Welfrog
Cyance Isla1 Phonoxica Total	ND ND	0.060 0.30			ույլ։ Մայր		98 0304 98-12/14	FPA 335.2 EPA <b>4</b> 23.1
182 Outfall			04-08-0549-2	08/09/	m4	Адмесия		_
Paremeter	Sesut.	EL	<u>DF</u>	Ола	Սոե	Date Prepare <u>d</u>	Date Anglyzed	Method
Cysoide, Total Prenolos, Total	СИ СИ	0/358 0/10	1		mg/L		08/13/04 08/12/04	EPA 235 2 EPA 420 1
384 Intake			04-08-0549-3	08/09/	М	Aqueous		
Farameter	<u>Féault</u>	RL	<u>D</u> E	Cual	<u> Upits</u>	Date Prepared	Claic Analyzed	Mal <u>hod</u>
Cyanede Tota Phenosos, Total	ND ND	0.050 0.40	i		mg∙L		08/13/04 00/12/04	EPA 335.7 # PA 420,1
34.4 Outfall			<b>04</b> -08-05 <b>49</b> -4	reóuáó	134	Афиеоде		
Parameler	Sesut	댎	<u>DF</u>	<u> 0.0</u>	واجيا	Date Presented	Dale Analyzas	Method
Cyanide, Losal Phenolica, Tosal	ND ND	6.950 0.10	1		mg/_		68/13/04 68/12/04	EPA 335.2 EPA 420.1
182 Installer			04-08-0548-5	D3/09/	04	Aqueaus	·	
Parameter	Result	<u> 8L</u>	ш⊨	Ωbal	Jning	Date Prepared	Date Analysed	Melhod
Gyande, Tota Phenolos, Total	ND ND	0.0 <del>6</del> 0 0.10	;		mgiL Mg/l	N-A N-A	08/13/04 08/12/04	EPA 335.2 EPA 470.1





Southern California Edison Material Testing Laboratory 7351 Ferrwick Lane

Date Received: Work Order No:

08/11/04 04-08-0549

Westminster, CA 92683

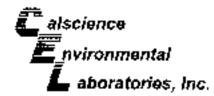
Project: 04121

Page 2 of 1D

Clert Sample Number			Lab Sample Nun	iber Dalı Collec		Mal'o		
18.2 Outfell			04-08-0548-6	080081	14	Aqueous		
Parameter	Result	31	먇	QJ2	<u> ปาเล</u>	Rate Prepared	Date Analyzed	Metica
Ovanide, Total Prienolics   Total	ND NO	0.050 0.10	1		mgil mgil	MA MA	08/13/64 08/12/04	БРА 335-2 ЕРА 420.1
384 Inteks			D4-08-0548-7	08/09/	<b>74</b>	Aqueona		
Egramenor	Result	RL.	<u>nf</u>	Qual	<u>Units</u>	Sale Prepared	Dans An <u>styzed</u>	Method
Cyanido, Total Phenolics, Tota	ND ND	0 050 0 10	1		ոցւԼ որև		08/13/04 08/12/04	EPA 335.2 EPA 420.1
3&4 Outlall			04-08-0549-8	08/00/	04	Ациесия		
Daramete:	₹08』।	BL	<u>UF</u>	Ωup	Unis	[8te Prepared	Date Analyzec	Nettocc
Cyenide, Fotal Phenolics   Total	ΩN ΩN	0.050 0.10	1		mg/L	N/A N/A	06/13/04 08/12/04	EPA 335.2 LPA 478.1
182 Intake		_	[14-04-0540-9	06/03/	<b>04</b>	Aqueous		
Paramera	Resut	КL	ŒE	Qual	<u>عانول</u>	State Prepared	Date Analyzed	Method
Cyanido, Total Fhanolos, Total	ND ND	0.050 0.10	1		տցվ աշև	N/A N/A	09/13/84 08/12/34	FPA 335 2 6PA 420.1
182 Certiali			04-08-0548-10	08/09/1	14	Aipeous		_
Parameter	Resu∐	SL	22	O.B	<u>Lynis</u>	Date Prepared	Oale Analyzeo	Method
Cyanide, Total Phenolics, Total	ND ND	0.050 0.10	1		mg/L mg/t	N/A N/A	06/13/04 06/12/04	EPA 335.2 EPA 420 1

RI - Reporting Limit .

EF - Dibition Fector ( Qual - Qualifers



Southern California Edison Material Testing Laboratory 7351 Fenwick Lane

Date Received: Work Order No: DB/11/04

04-08-0549

Westminster, CA 92683

Project: 04121

Page 3 of 10

Crent Sample Number			Lab Sample Num	ber Dala Collected	1	Mair x		
364 Ireaks			04-08-0549-11	08/09/04		Aqueous		
Perameter	Besuli	RL	u+	Qual J.	فننوار	<u> Nate Pregared</u>	Date Analyzad	Melhod
Cyanica Telas Phenologi, Telej	ND ND	0.060 0.50	i 1		ոց։Լ	N/A N/A	08/19/04 08/12/04	EPA 535.2 EPA 420 1
3&4 Outfall			04-08-0549-12	0 EV DÉ 10-4	ı	Адмесыя	<u> </u>	_
Peramete	Result	<u>दा</u>	<u>DF</u>		la lu	<u>Date Freque</u> t	Date Analyzeg	Makrod
Cyanide, Total Phenolics, Yotal	ND CM	0 050 0 10	1 1		ng/L		08/13/04 08/12/04	FPA 335 2 EPA 420.1
182 Intaka		•	04-08-05-49-13	08/99/04		Aqueous		
Parameter	Result	RL	ŒE	Cual D	irits	<u> Дана Р∗еданы:</u>	Date Analysis	Melhod
Cyanide, Total Phenolics, Toral	ND ND	0 050 0 10	:		ոքչԼ		08/13/04 08/12/04	EPA 395.2 EPA 420.1
1&2 Outfull			Q4-08-0549-14	08/10/04		Aquoous		
Parameter	Beach	EL	QE	Qual U	loès.	Date Prepared	Date Analyzed	Melnod
īyan da ITojai Pliensijos, Total	ND ND	9.050 9.10	1		ng/L	N/A N/A	08/19/04 08/12/04	EPA 335 Z EPA 420 1
38.4 Intake			04-08-0549-15	08/09/04		Aqueous		
Parameter	Resul	<u>R:</u>	ĽΈ	CAUSE U	rila	Date F <u>restated</u>	Date Anakced	Vettec
Cyanida, Total Phenolos, Total	ND ND	0.050 0.10	:		rgi_ rgiL	AVA AVA	08/15/04 08/12/04	EPA 335.2 EPA 420.1

RL Reporting Junit

26 - Citates: Factor ...

Qual-Qualities



Southern California Edison Material Testing Laboratory 7351 Fenwick Lane

Date Received: Work Order No: 08/11/04

04-08-0549

Westminster, CA 92683

Project: 04121

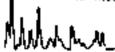
Page 4 of 10

								1 080 10.
Chert Sainple Number			. ao Samole Num	oor Date Collected		Мато		
364 Quffall			04-08-0549-16	0800004		Aqueore		
Parameter	Rosut	EL.	<u>DF</u>	Dan U	nts	Care Present d	<u>Date Analyzec</u>	Method
Cyanide, Total Phenolos, Total	70 70	0.356 0.13	1		1971. 1971.		08/12/04 08/12/04	EPA 335.2 EPA 420.1
182 intake			04-08-0549-17	O&110404		Aqueous		
Parameter	Resit	<u>r</u>	DF.	South D	<del>⊬</del> is	Date Prepared	Date Analyzed	Method
Gyanide, Local Phenolica, Total	ND ND	0 0 <b>5</b> 0 0 10	1		19'. 19'-	N/A N/A	08/13/04 08/12/04	EPA 335.2 EPA 428.1
182 Outfall			0 <b>4-02-</b> 0549-18	0810/04		Aquenica		
<u>Parameter</u>	Rosuli	HL	<u>L:F</u>	Orea II	ciis	Dale Hapares	Danetéra yang	Melhod
Cyanide, Total Phenolos, Tita	ND ND	0.050 0.10	;		ng/L ng/L	N/A N/A	08/12/04 48/12/04	EPA 335.2 FPA 420 1
384 intake			04-06-0549-19	66/10/04		Aqueous		
Parameter	Besuli	<u>RI_</u>	<u>DF</u>	Qual U	oi <u>s</u>	Data Precives	Date Analyzed	Mellod
Cyande, Iotal Fhenolica, Totsi	MD MD	0.10	•		ոցմ ույչև	AUA Pun	09:13:04 09:12:04	FPA 335 2 EPA 420.1
364 Outtell			04-08-0549-20	08/10/04		Адивоня		
Parameter	Besut	₽L	۵f	Qual 0	nca	Data Propered	Deno Analyzod	Method
Cyanide Total Phensiss, Total	ND ND	0.050 0.10	1		ng/L ng/l	N/A N/A	08/13/04 08/17/04	CPA 335.2 FFA 470.1



DI - Diuten Factor . .

Qual - Qualifiers





Southern California Edison Material Testing Laboratory 7351 Ferwick Lane Westminster, CA 92883 Date Received:

08/11/04

04-08-0549

Work Order No:

Project: 04121 Page 5 of 10

Ölinni Sample Number			, so Sample Num	ber Daw Colec		Matrix		
162 Intake	_		04-08-0549-21	Q\$P1Q1		Ацивошв		
Pyremeter	<u> 385411</u>	<u>RL</u>	먇	SHB	yats	Dato Presered	Date Analyzed	Method
Cyanide, Togal Premolics, Total	ND ND	3 350 3.13	1		mg/L mg/L	N/A N/A	08/17/04 08/12/04	EPA 335 2 EPA 420 1
182 Curfall	•	•	04-08-0549-22	<b>68</b> 16	rů <b>4</b> ,	Aqueous		
<sup>D</sup> yam <del>aa</del>	<u>Basut</u>	RL	<u>or</u>	ورق	<u>Linua</u>	Cate Prepared	Date Analyzed	Method
Cyande, Total Pnonaics, Total	NO NO	0.050 0.10	1		თეშ ო <b>ე</b> ზ	N/A N/A	08/17/04 08/12/04	EPA 335.2 EPA 420.1
3841nlake			04-08-0549-23	· 08/10/	04 .	Aquenus		
Parameter	Sesul	RL.	DE	on.	Linis	Cate Prepared	Date Analyzeo	Method
Cyande, Lotal Phenolics Total	ND ND	3,350 3.13	1		ma'l mgʻl	N/A N/A	08/17/04 08/12/04	EPA 335 3 EPA 420 1
3&4 Outfall			04-08-0549-24	<b>48</b> /10	Ú4 ,	Aqueous		
Perameter	Resul	BL	<u>DF</u>	<u>0.06</u>	<u>ljmle</u>	Care Frocerod	Dalp Analyzod	Vietnos
Cyande, Total Phanaics, Total	NO NO	0.050 0.10	1		ന <b>്ട</b> ്.	N/A N/A	08/17/04 08/12/04	EPA 236.2 EPA 426 1
182 Intake			Q4-08-0 <del>549-</del> 25	08/10/	04 .	Aqueous		
Parantale;	Rosyt	RL	DÉ	Qual	Unis	Liste Prepared	Dale Analyzea	Method
Cyan <b>ec, Total</b> Phenolics, Total	ND ND	3,3 <b>5</b> 0 3,17	1		та". та″.	NA NA	08/17/04 08/12/04	EPA 335 2 EPA 420.1

Rui-Reponing Limit II.

DF - Dilution Factor

Qual - Qualmers



Southern California Edison Material Testing Laboratory 7351 Ferwick Lane Westminster, CA 92683

Date Received: Work Order No: 08/11/04 04-09-05/44

04-08-0549

Project: 04121

Page 6 of 10

Oberg Sample Number			Lab Sample Num	bor Date Collected	d	Matrix		
18.2 Outlall			04-08-0549-26	08/10/04	١.	Афиеоия		
Parameter	Result	BL	ĽΓ	Qual :	Uncs	Date Prepared	Date Analyzed	Method
Cyanice, Total Phenoics, Total	ND ND	0.050 0.10	1		חקור שיפור		08/13/04 08/12/04	EPA 235 2 EPA 470 1
384 Intake			04-08-0548-27	DBMOMA	<u>.</u>	Адиеоля		
Pavamolor	Boset	<u> </u>	<u>DF</u>	Qua ,	<u>Jairs</u>	Date Prepared	Date Analyzed	Method
Cyance Total Phenolos, Total	ND ND	n esc 0 10	1		ուցյե ուցյե		08/17/04 08/12/04	EPA 336 2 EPA 420 1
3&4 Outfall			04-08-0549-28	001004	ı	Адиосия		
Perameter	Result	3L	<u>or</u>	தேத (	Jals	Date Prepared	Date Anatozec	Method
Cysomie Total Phenolos, Total	an GN	0.050 0.10	1		nig/L		08/17/04 08/12/04	EPA 335,2 GPA 420,1
18.2 Inçake			04-08-0549-29	<b>0</b> 8/10/04	(	Aquetus		
<del>Parameda</del> r	Res.i1	EL	Q5	Salai I	Jinda	Cats Prepared	Dale Apatizac	Agree
Cyanide, Total Phanolics 1 ctal	ND ND	9,3 <b>58</b> 0.10	1		mg/L Mg/.		08/17/04 08/12/04	EPA 335.2 EPA 420.1
182 Outfall			04-08-0549-30	08/10/04		Aqueous		
Paranular	<u>Result</u>	B.	DΞ	ا امد	Jrils	Date Prepared	Date Analyzed	Method
Cysnide, Total Prenoles, Total	NO ND	9 950 0.19	1 1		ing/_ mg/∟		08/17/64 08/13/64	EPA 335.2 EPA 420.1

Walnu

RL-Reporting Limit 。 DF-O Eaton Factor . Quel-Q rations



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Date Received: Work Order No: 08/11/04

04-08-0549

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Page 7 of 10

Crent Sample Number			, an Sample Num	per Daje Collected		Make		
364 Intaks			04-08-0549-31	08/10/04		Aquacus		
Harameter -	Resur.	BL.	<u>QF</u>	<u>Que</u> V	1 (3	Dags Prepared	<u> Fete Anstwee</u>	Meinod
Cyanide, Total Phenolics, Total	NO CM	0.359 0.13	1		91 91	N/A N/A	08/17/04 08/13/04	EPA 335.2 EPA 420.1
384 Outfall			04-08-0549-32	OB/1 0/04		Адиношя		
Parenieger	Result	R.	<u>pr</u>	الم ورو	115	Cate Prepared	<u>Date Analoge</u> d	Method
Cysnide, Tarsl Phenolos, Total	CA CA	0.950 0.19	1		9'- 9'-		08/17/04 08/13/04	LPA 235 Z FPA 420 1
1&2 Intaka			04-08-0549-33	08/10/04		Aqueous		
Parameter	Besuli	RL.	C.F	الل العبدي	Ήδ	⊒gle Pregerad	Dalle Analyzed	Method
Cyanide, Total Phenoics, Tota	ND ND	0 050 0 10	:		çıl. gıl.	N/A N/A	08/17/04 08/13/04	EPA 335.2 EPA 420,1
182 Outfell			04-05-0549-34	D8/10/04		Aqueous		
Parametar	Result	RL	эc	Qual Un	ii.s	Quie Precorec	Oate And voed	<u>Well-od</u>
Cyanide 1ela Firenolios, Total	ND ND	0.40	:		g/L g/L		08/17/04 00/13/04	EPA 335.2 EPA 420.1
354 Intake			04-08-0549-35	08/10/04		Афиефа		
Parameter	Hesuk	RL	ΩF	Quel Un	168	Date Prepared	Date Anajyzed	Method
Cyande Tala Phonoiss, Total	MD MD	0.050 0.10	1		git gil	N/A N/A	08/17/34 08/13/34	EPA 335.2 EPA 420.1

K. - Neporting Limit .

DF Dauton Factor

Call Challes

7440 Encoln Way, Garden Grove, CA 92841-1427 • TFL (7t4) 895-5494 • FAX: (714) 894-7501

### Section 6.0 EPA Form 2C Appendix C **Business Owner/Operation Identification Manual**

### UNIFIED PROGRAM CONSOLIDATED FORM

### **BUSINESS OWNER/OPERATOR IDENTIFICATION**

□ NEW BUSINESS □ COUNTY BUSINESS □ INTERESTIPORTE (\$455-0076 € ) (1)	
I. IDENTIF	HOATION PROTEIN
1 9 0 1 3 3 0 0 0 1	
BUSINESS NAME (Semi or FACILITY NAME of 25A - Comp Representation	S DUSINESS PHONE
EL SEGUNDO POWER, LLC	(310) 516-6028
BUSINEDS SITE ANDRESS	
301 VISTA DEL MAR	
CITY EL SEGUNDO	102 CA   ZIP CODE 90245
DUNA BRADSTREET 19-723-5187 COUNTY LOS ANGELES	** SIC COOE (4 digit #) 4911 194
BUSINESS OPERATOR NAME	108 UNINCORPORATED ☐ Yes (X) No 1756
EL SEGUNDO OPERATIONS, INC.	109 L BUSINESS OPERATOR PHONE 1995
	(31 <u>0)</u> 6 <u>15</u> -5028
ii. Busines	S OWNER
OWNER NAVE	10 OWNER PHONE 177
EL SEGUNDO POWER, LLC	(310) 615-6028
OWNER MAILING ADDRESS	
301 VISTA DEL MAR	
OITY EL SEGUNDO	STATE CA 110 ZIP CODE 90245 116
III. ENVIRONMEN	AL CONTACT
CGNTAGT NAME	THE CONTACT PRONE THE THE
ALEX SANCHEZ/STEVE ODARASHIAN	
CONTACT MAIRING ADDRESS	112
301 VISTA DEL MAR	
ITY EL SEGUNDO	20 STATE CA 151 ZIP DODH 90245 122
•PRIMARY- IV. EMERGE	ENCY CONTACTS -SECONDARY-
	2 NAME
VARIOUS	ALEX SANCHEZ/STEVE ODABASHIAN
	24 TITLE 428
SHIFT SUPERVISOR	ENVIRONMENTAL SUPERVISOR
	** BUSINESS PHONE (310) 815-6351 OR 615-6331
<del></del>	24 HOUR PHONE (310) 529-3280 OR 529-3281 Un
PAGER# N/A	27 PAGEP# NIA
V. ADDITIONAL LOCALLY COLLI	ECTED INFORMATION 132
NUMBER OF EMPLOYERS 36 1925 : 4602	RAL TAX IDENTIFICATION NUMBER 45-192 9887 1936
MARING BILLING I	NFORMATION .
	1 0 10 10 10 10 10 10 10 10 10 10 10 10
301 VISTA DEL MARE	CUMPO
Conflication. Based on my inquiry of those individuals responsible for columning the engineered and representative with the information automatics and between the information	information, I certify under penalty of awrither i have postablely
S GNATURE (3 CHARLES OF STRATCS CR. DESCRIPTION AS NO.	1 1
The second of th	NAME OF COCUMENT PHERARER
MANTE OR SIGNED (FIN) 2. SAGULTÓC CONTENT L. C.	ALEX SANCHEZ
AUDUN AABERG By: NRG Operations, Hoc. 1	• 1
	REGIONAL PLANTS MANAGER
OFFICIAL USE ONLY UFCF HW HM ARP	AST USI TP CUPA PA
KSPECTUR DISTRICE DISTRICE DINSP. DIN	USION BAT : ALION STATION
— — <u> </u>	<u></u>

File; 1 D 26

### UNIFIED PROGRAM CONSOLIDATED FORM

### **BUSINESS ACTIVITIES**

· ·		Fage Loft
! FACILITY ID# !   FACILITY IDE		
1 9 0 1 3 3 0 0 0	1/1/	'A IO # (riszandous Waste Only) CAR 000036848
BUSINESS NAME (Same as Feduly Name of DBA Doing Historiess As)		<del></del>
EL SEGUNDO POWER, LLC, 301 VISTA DEL MAR, E		245
MOTE MATERIAL ACTIVITIES D	ECLARATION	
NOTE: If you check YES please submit the Business Owne	to any part of this li e/Operator Identifica	st, ation page.
Loes your facility.	<del>-</del>	олонеть three pages of the UPCF
A_HAZARDOUS MATERIALS	1	i pages of the OPCE
Have on alle (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solide, or 200 cable feet for compressed gases. (include liquids in ASTs and USTs), or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	   (K;YE3	4 HAZAMDOUS MATERIALS INVENTORY CHEMICAL DESCRIPTION CONSOLIDATED CONTINUE NOMPLAN (Section Land Ste Map(s)) 4 TRANNING PLAN
B. UNDERGROUND SYCICAGE TANKS (USTs)  1. Own or operate underground storage tanks?		+
_	(X)YES ☐ NO 5	4UST TANK (are page pro price)
ি Intend to upgrade exsping or install new USTs?	□ Y53 (X) NO E	4UST FACILITY
3. Need to report closing a UST?	ELIYES KANO 7	#UST TANK (we persork) #UST INSTALLATION - CERTIFICATE OF COMPLIANCH (we page portore) #UST TANK (descriptions of page persor)
S. ABOVE GROUND PRITROLEUM STORAGE TANKS (ASTs)	<u>                                     </u>	
Own or operate ASTs above these thresholds any lank capacity is greater than \$60 gallons, or —the total capacity for the facility is greater than 1,000 gallons?	(X)YES - NO &	NO FORM REQUIRED TO CUPAS
D. HAZARDOUS WASTE	] .—— ·	
1. Geherate hazardruis weste?	İ	4 505 (C 50 0.00 cs 41
	 (X)YES □ 40 8 ,	4 FPA /9 NUMBER – provide at the top at the page.
2. Recycle more than 100 kg/morath of avolvated or exempted	[ [ [ ]	4 As a generalize answer YSS to Item 22b and complete Waste Canerator Force
recyclable materials (por HSC 2514;12)2	. Dives (X) NO 10 !	4 RECYCLAR: E MATERIALS REPORT
Trest laisardous waste on site?	⊡ 7T3 (X) NO :1	4 CNSITE HAZARDOUS WASTE IREATMENT - FACILITY 4 ONSITE HAZARDOUS WASTE TREATMENT - UNIT (614 POSTMENT)
<ol> <li>Treatment subject to financial segurance requirements (for Parmit by Rule and Condehnal Authorization)?</li> </ol>	⊡YES (X) ND 12	4 CERTIFICATION OF HINANCIAL
<ol> <li>Consulidate hazardous weste generated at a remote 6847</li> </ol>		ASSURANCE 4 REMOTE WASTE/ CONSOLUBITION
6 Need to report the dissure/removal of a tank that was plassified as		SITE ANNUAL NOTIFICATION 4 HAZARDOJS WASTE TANK OF OSURE
heautous waste and deaned original  E. I CCAL REQUIREMENTS  I. RESULATED SUBSTANCES  ———————————————————————————————————	LIYES (X) NO 14 !	CERTIFICATION IS
Have Regulated Substances (RS) Industry Extremely I razardous Substances	·	
entar) surec on site at greater than the threshold planning quantities stabblished by the Cartomia Accidental Resease Program (CartARP; 1)	(X) YES I NO	In addition to Hark (our Malerals requirements, samplete 4 Reguates Substance Registration
2 DIHER REQUIREMENTS	· - :	4 Risk Management Flan (when requires)
Have hazardous materials stored on attending above a threshold aircomh established by a CCPA's or PA's local ordinance? Required by a CCPA or PA to provide other information?	□YES (X) NO 156 (	4 Consult local CUPA or PA for accied reporting requirements.
i		Whate Generato: Form (LA County)
ROLAL USE ONLY GOOF (WW /W ARP	AST UST	TP CUPA TPA
\ <u></u>	<u>i</u>	

1

	FACILITY IDENTIFICATION		
BUSINESS NAME	<del></del>	3 : F	FACILITY ID#1
EL SEGUNDO POWER, LLC			19013309011
SITE ADDRESS	103   Ch'Y	104 2	ZIP CODE 105
361 VISTA DEL MAR	EL SEGUNDO	5	90245

The Consolidated Contingency Plain provides businesses a formal to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California.

- m Hazardous Materials Business Plan (HSC Chapter 8.95 Section 28504 (b) and 19 CCR Sections 2729-2732),
- ভ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 চনেৰ Sections 2832 and 2641),

This site specific Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materiats which could threaten human health and/or the environment. The contingency plan shall be reviewed, and immediately amended, if necessary, whenever,

- the plan fails is an emergency,
- the facility changes in its design, construction, operation, maintenance, or other circumstances in a way materiality increases the potential for fires, explosions, or releases of hazardous waste constituents, or changes the response necessary in an emergency,
- the list of emergency coordinators changes, or

the fist of emergency equipment changes.

This format is designed to minimize duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and tederal emergency responders during an emergency. Use the chart below to determine which sections of the Correlated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materiels Sesiness Ptan (HM6P)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Mop(s)
Underground Storage Tank (UST)	Cover Page, Sections Land II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections Land II, and Sile Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Confingency Plan, including the hazardous material inventories and Site Map(s), is located at your husiness:

ALL COPIES ARE FILED IN THE SHIFT SUPERVISORS OFFICE AND PLANT ADMINISTRATIVE FILES LOCATED AT THE FRONT OF THE BUILDING.

 z appropiate the effort of Incel businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PAL

### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

J. FACILITY IDENTIFICATION	
RUSINESS NAME	-
EL SEGUNDO POWER, LLC 19013300011	1
SITE ADDRESS 103 CITY 104 ZIP CODE 10	
301 VISTA DEL MAR EL SEGUNDO 90245	Ю
	_
	_
NAME SECONDAR!	
	8
TITLE RELATIONS	_
SHIFT SUPERVISOR ENVIRONMENTAL SUPERVISOR	8
BUSINESS PHONE 125 BUSINESS PHONE 13	
(310) 615-6313	٠.,
24-HOUR PHONE 126 24-HOUR PHONE "23	-
(310) 615-6313 (310) 529-3280(/310) 529-3281	•
PAGER# 127   PAGER# 127	7
N/A N/A	_
III. EMERGENCY RESPONSE PLANS AND PROCEDURES	
A. Notifications	_
Your business is required by State Law to provide an immediate verbal report of any release or Princatened release of a	_
hazardous malerial to local fire emergency response corsonnel, this Umfed Program Agency (CUPA or PA), and the	
Office of Emergency Services. If you have a release of threatened release of hazardous materials, atmediately call:	
T/REPARAMEDICS/POLICE/SHERIFF	
PHONE: 911	
AFTER the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the	-
Office of Emergency Services	
Local Unified Program Agency: (310) 524 - 2242	
State Office of Emergancy Service: (800) 852-7550 or (919) 262-1621	
National Response Center. (800) 424-8802	
Information to be provided during Notification:	_
ற Your Name and the Yuiophone Number from where you are calling	_
ய Exact address of the release or threatened release.	
<ul> <li>Date, time_cause, and type of poident (e.g. fire, air release, spill etc.)</li> </ul>	
অ Material and quantity of the release, to the extent, known	
© Currient condition of the facility.	
ω Extent of injuries, if any	i
B. Emergency Medical Facility	!
2	١
List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a	
Stable of thesis and disease of the safety in thest in the safety in the safety in the safety in the safety in the	-
HOSPITAL/CLINIC: PHONE NO.	ᅥ
RFK MEDICAL CENTER 1310-973-1711	'
	7
4500 WEST 116™ STREET, HAWTHORNE	ļ
21P CODE	١
Private On-Site Emergency Response Team	ī
IS YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM?	-!
yes describe what policies and procedures your business will follow to post your positive appreciate to proceed the control of the process of	!
to overte by a rainable of the ease, ec reides a bi hazordous materials.	ļ
P FDRM (12/1995 Version) 4E CUPAs OF JOS ANGELES COURTY  2  UPF_LAC4 104_FI_OP	9

### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

D. If you or St below	ate or lo	ace seeds on	e ≏otahren	nergency Respond dual) arrangements wit e team to coordinate er	L <del>. = =</del>	lice dapanment, fire o pservices, describe ti	lepartment, hose anang	hospital, contractor pernents on the lines
.	N/A							
<b>E.</b> 11	Evac ie foliowi	uation Plan	 	ië used to begin evacua	—- ·	ne facility (chienk ал м		
լ Ei Ve	artxel जि igers छ		reludina e	अधियोजनी जि <b>म Atarım</b> Suster				
2. 🗷	Evacuati	राहे हो हो है कि कि कि कि कि	Binerily i	displayed throughout th	u facility			
3. 🗷		(5) responsible		dinafing evacuation inc			C ponfirmin	g the business has
\$	HIFT SL	PERVISORS						
   <b>F</b> ,	Farth	guake Vuln	erabilit	<del>_</del>	<u> </u>			
Identii	fy areas o	of the facility w	here rele	ases could occur or wo	eld regul	05 ichmediate inspecti	ion or incom	200 because of the
		CONTRIGUENCE TE	HOLESON STATES	una meakan		re ireinissione mapeodi	ion or isoleli	ANT DECAUSE OF (I)E
<u> </u>	Bench/	Cab	izantous 	Meterials Storage Area Waste Treatment	(⊠ ∏ s	Production Floor Other Readous	☐ YVasqe Accum.	Process Lines ublion Areas
loemiif	y mechai	ncal systems v	where rais	eases could construct or we	ould region	ire immediate inspec	iina or isola	tion because of
the vu		k en een mid aane	₃ related :	ground madon.				tion bodaless t
ᅢ	Utilities Racks	i	H	Sprinkler.Systems	₽	Capinets		Shelves
isi -		s Piping	B	Pressure Vessels Shutoff Valves	图	Gas Cylinders Other:	E	Tanks
	_					Capilor.		
G.		Emergency						
11022010	003 114036	ariques.		opurating procedures (				
1. present <u>include</u>	i dii yodi i	obiity. Titilati	асынын үү	zard) - Describe the kind ould your business take ge procedures.	Is of haz ≓o previ	rands associated with ent these hazards from	the hazardo Mioucuming	ous crateriais 12. You may
<u>स्थ्ययः स</u>	s associa	ited with mater	i <u>els prese</u>	ent at <u>sais faci</u> lity in <u>olud</u>	o <u>ithe</u> se (	ommunity associated	with the ha	indling of hatural
gas, lub	orisating (	oif <u>, caustic, an</u> g	d oxidizer	rs. P <u>recautio</u> ns a <u>grunst</u>	<u>lhə</u> şe ha	zards <u>ard</u> described i	n the facility	∵ y's Spill Preveni
tion Cor	ntroit a <u>nd</u>	<u>Countém</u> neasi	ire Plar. (	SPC <u>C), the Site Emery</u>	ency <u>Co</u>	atingency Plan, and t	be <u>Hazardo</u>	us Metenals and
<u>i sazardı</u>	ous Wast	e <u>Manag</u> ema <u>n</u>	<u>t Plan. T</u> a	he p <u>recouti</u> ons in <u>olude (</u>	<u>crmai t</u> ra	a <u>ming</u> of affected per	sondel, writ	len operating (n- );
<u>Struction</u>	es, notific	ation procedu	res, comba	ii <u>nment an</u> d r <u>emediatio</u> i	1 ord <u>er. 1</u>	he safety and storag	je procedun	es are covered in
`7-1 <u>:</u>	Emerger	ipy Prep <u>&amp; Ros</u>	<u>iponse Pl</u>	<u>lan, SP 8-2: Fiaz Mațeri</u>	als & He	z W <u>aste Mg</u> mt Plan,	<u>&amp; SP 8-1: \$</u>	PCC.

### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

2. MITIGATION (reduce the hazard) - Describe what is cone to lesses the haim or the damage to person(s), property of the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or enthone release at your business.
Reports 8 mitigation procedures are outlined in the taciRy's Site Emergency Plan, Hispatidous Materials and Hazardous Weste Marie.
Plan, and SPCC Plan. In Instances of leaks, spills, explosions, or airborne releases, station personnel operating the
equipment (on a 24-hour basis), immediately notify the Shift Supervisor. The Shift Supervisor is the site Incident Com-
mander. The response includes, but is not limited to, the proper outification of regulatory agencies, isolation, and if
necessary, an emergency evacuation of the area. Terrorists attacks are not considered a significant hazard to any
hazardous material or placifical generating facilities at FI Segundo Power, LLC. Positive access to the site is controlled by
perimeter fencing and by uniformed security guards. The Department of Homeland Security guidelines are followed for
alort levels. Security staffing procedures have changed to retruct change in alort levels. El Segundo Power, LLC, will be
especially vigitant to cosure that any suspicious activity, including threats, unusual purchasus, suspicious behavior is
expeditiously reported to the El Segundo Police Dopartment and to the local field office of the FBI. The FBI, through its
weapons of crass destruction coordinator, will tecilitate a formal threat assessment process with FBI headquarters and
other government agencies as necessary. El Segundo Generating Station has never been the target of a terrorist attack.
jowever, in the unlikely event of a lemorist attack, the Emergency Preparedness and Emergency Response Plan
covers the actions required to protect employed and public safety and environmental well being in the event of an
umplanned atlack or release.
3. ABATEMENT (remove the hazard) - Describe what you would do in stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?
Control & elimination of the hazard would be as directed by the Shift Supervisor. Such directions would rectude the containing of
hszardous materials by using dikes and absorpent materials. Personnel trained to the appropriate HAZWO(FER level or III)
licensed, permitted contractors would assume responsibility for the clear-up of the trazamonis material. As permitted, a
Consed contractor would be confranted for the removal of the hazardous waste to the proper site. See the <u>Dontingency</u>
Plan for more detailed information.
·

### Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

### II. Emergency Equipment

: 22 CCR, Section 65265.52(e) [as referenced by Section 66262.34(a)(3) requires that emergency equipment at the facility be issed. Completion of the following Emergency Equipment Inventory Table meets this requirement.

<b>.</b>	EMERGENCY EQUIPMI	ENI INVENTO	RY TABLE
1. Equipment	2,	3.	4.
	Equipment	(Sae Key)	
Category		i Location *	Description**
Personal Profective	IZ) Cartridge Resplisions	j 1:2	NICASH approved
Equipment.	জChemical Monitoring Fruitproent (describe)	1, 9, 10,*1	Ammonta Vapor and Leak E-Hestons
Sately	☑ Chemical Frolective Aptons/Coats	. i 2,3	Chemical Residual
Equipment,	I×I Chenikal Protective Books	123	Chemical Resistant
arid	©Chemical Protective Gloves	2, 3	Chemical Resistant
First Aid	☐ Chemical Protective Suffs (describe)	_i	N/A
Equipment	ØFace Shiekas	2.3	Cherrital Reastant
Edablion	©First Ald ⊀ds/Riddians (describe)	! 4	! Minor Injuries only
	BHard Hels	4	ANSI approved
:	ElPhonoed Eye (Wash Stations	5	Polable writer supplied with safety shown:
	☐ Portable Eye Wesh Kits (i.e., bottle type)		I N/A
	ExRespirator Cortidges (describs)	1,2	NICSH approved
	In Safety Classet/Splash Coggress	]1,2	ANSI approved
	⊠Sažety Showers	. 5	OSHA approved
	☐ Self-Contained Breaking Apparatuses (SCBA)	<del>-</del> -	N/A
	□ Other (describe)		N/A
Fire.	Automatic Fire Sprinder Systems	5	I NEPA approved
Extinguishing	©Fire Alasm Bores/Scations	] <sub>a</sub> ——	NEPA soproved
ystems	Fre Extinguisher Systems (describe)	<del> </del>	N/A
	☐ Other (describe)	<del>                                     </del>	V/A
Spilt	☑ Absorbents (respine)	¹ <del>;</del>	: Oll Absorbent
Control	□ Berms/Files (describe)	Ţ÷——: ——;	N/A
Equipment	☐ Decayilamication Equipment (desarine)	` ··	I MA
and	☐ Emergency Tanks (describe)	<u> </u>	N/A
Decontamination	☐ Entradel Floods	+	AVA
Equipmen;	☐ Gas Cylinders Lean Repair XIts (describin)	·	· · ·
	☐ Noutraizers (describs)	+ i	N/A
	☐ Overpartit Drums	i .———	N/A
	☑ Sumas (describe)	<del> </del>	N/A
	☐ Other (describe)	L=	Plant Waste Water
ommunications	j. L.J Chenikad Alarma (describe)	<del></del>	N/A
nd	3) Intercons/ PA Systems	├ i	N/A
darm	At Sontable Radius	<u> </u>	<u> </u>
ystems	☐ Telephones	2,1	Strae Charvel
3 *********		21	Phone systems
	☑ Uscommon Tank Leak Detection Morrikurs	°i	Audble Alairii
		· 11 j	Audible Alam-
lant		L	·
ocation		KEA	
e <b>y</b>	1 Canho' Robin	i	6 Units 3 & 4 British Frence
~7	2 Werehouse		7. Lube CM Storage Areas
	I. 3. Chemical Food Area		© Vancos lucations in plant teading to retention basin
	4 All healtings	i	9 Aminuria Storage Tenk
	5. All Chemical Strage Areas		10 Linux 7.8 4 SCR Injectann Skids
	·		11. Underground section of ammonia feed ting

Use the Location Codes (LC) from the Storage Map (s) prepared for your Contingency Plan

Describe the equipment and its paperations in applicable, specity any testinglineintenders procedures/microsis. Attach additional pages, whitehed appropriating, if neetled.

### SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

**Employee Training Plan** 

All facilities which handle hazardous materials must have a written employed training plan. A blank plan has been provided below for you to complete and submit. Check all boxes which apply. (Note: items marked with an asterisk (\*) are required.):

1	. Personnel are trained in the following procedures:
[2	8 Internal starm/notification *
12	El Evacuation/re-entry procedures and assembly point socations*
12	Emergency incident reporting
25	External emergency response organization notification
	Location(s) and contants of Contingency Plan
[ 2	Facility evacuation drills, which are conducted at least (specify) ANNUALY (e.g. "Quarterly", etc.)
l	
2	. Chemical Handlers are additionally trained in the following:
[ [2	Safe methods for handling and storage of hazardous materials
Œ	I Location(s) and proper use of fire and spilt control equipment
	3 Split procedures/emergency procedures
ĺΣ	Proper use of personal profestive equipment*
. 3	B Specific hazard(s) of each chemical to which they may be exposed, including routes of exposure (i.e. whaleton
I	ingestion, absorption) *
ĸ	Hazardous Waste Handlers/Managers are trained in all aspects of hazardous waste management specific to the
I	pop outries (e.g. container accumulation time requirements, labelino requirements, storatie area inspectifici
Ш	requirements, manifesting requirements, etc.) *
3.	Emergency Response Team Members are capable of and ongaged in the following:
<u> </u>	Personnel rescue procedures
ــاِ	
<u> </u>	
	Emergency response drills, which are conducted at least (specify) <u>ANNUALY</u> (e.g. "Quarterly", ctc.)
411	Recordkeeping
Ch	facilities which handle hazardous materials must maintain records associated with their management. A summary of or (tecanikeeping procedures is required. A blank summary has been provided below for you to complete and submit, neck all buxes which apply. The following records are maintained at the facility, other thems marked with an esterisk (*) are required.j:
¥	Current employees' training records (to be refained until closure of the facility)
Z	Former employees' training records (to be retained at least three years after termination of employment) *
N	Training Program(s) (i.e. written description of introductory and continuing training) *
×	Current copy of this Contingency Plan *
X	Record of recordable/reportable hazertous material/weste releases *
!	Record of hazardous material/waste storage area inspections *
<u>-</u> را	Record of hazardous weste tank daily inspections *
¥	Description and documentation of facility emergency response dolls

Note: The above list of records does not necessarily identity every type of record required to be maintained by the facility.

### SECTION II: UST EMERGENCY RESPONSE AND MONITORING PLAN

L	١,	FAC	ALITY (	DENTIFIC.	ATION			
BUSINESS NAME EL SEGUNDO POWER, LLC						3	FACILITY II 1901330001	
SITE ADDRESS 301 VISTA DEL MAR				103	CITY EL SEGUNDO	104	ZIP CODE 90245	105
II.	MOI	NITORI	NG PLA	N AND P	ROCEDURES		<u>'</u> .	·—
1. The frequency of monitoring is:	as folic	)ws:		<u> </u>				
a. Tank: The SCR Ammonia Tank i and piping system at least twice per s	shrtt.						unds of the fai	nx
b. Piping: Operations personact make						rshift		
2. The methods and equipment (na	ıme an	d model)	used for	monitoring	g include:			
a. Tank: There are two separate Minne leak sensors. The Ammonia Store activate with the detection of liquid. A and at the ammonia skid under unit 4	rage ta: immorti boiter,	ak hes six ia vapor k	k electroni eak detec	ic Idak detec Iors are Ions	ites monitors. As a ifed locally in the a	ajarm light Irea of the	and buzzer w storage tank t	ili) tap
b. Piping: Three leak detector sensor will activate with the detection of liqui	nsane⊪ d. Alfa	r≅stalled is Jamos are	u the undo a also rec	erground dol erved in the	ublo walled piping. Units 3 & 4 Contro	Art álamai ! Room	light and buzz	ÆΓ
3. The location (s) where monitoring							r destable 1	
		SEE ATT		440 (504 56	racinea prat pinis i	ioi iurtilei	r Gelalis):	
Attach one page slot pain showing; 1. Location of underground storage 2. Location of monitoring points an	e tankas, bi	ulidhèse aus	d sumerty im	E5.				
4. The name(s) of responsible person	ວກ (ຂ) ເ	performin	ng the m	onitoring at	id/or maintaining	the equip	 pment include	e:
Audun Aaberg, Regional Plants Manad	ger							
5. The reporting format for all mont	toring	performs	ed is as to	oliows:				
<ul> <li>a. Tank; Operations personnel make in RCRA Daily sheet.</li> </ul>								
<ul> <li>b. Priping: Operations personnel make RCRA Baily sheet</li> </ul>						r status is	recorded on #	he
<ol> <li>The preventative maintenance sci Operation personnel test alarm circuit</li> </ol>	hedule on a da	for the n alv basis	<b>nonitorin</b> The Insid	i <b>g equip</b> moi	nt is:	urte muonu	2 months to	
ensore the alarm system is operable. It arranged basis.	îhe leai	k detectio	n system	is certified :	and preventive ma	intendace	is performed i	υn
7. The training necessary for the op-	Cration	of UST a	svstame	including a	union and marits	rina ana	 	.: <i>=</i>
Operations and maintenance porsonne trained armually in HAZWOPER respondence; shift supervisors and key managapiant personnol are trained to the HAZN	ii are ire iisa prod emen! p	amed on P Sersumal	eak dete: Operation are t/g/re	žion elarmir s persognet stratitio HAI	esponse procedura are trained to the	es. All stat HAZIMORI	ion personnel SR Cheration	aic =
<u>gore: Training is soft-cluted and provided on _AN</u>	ANNU	A.L	Dasis a:	iá trainlng recon	(68 für Devisionne) and war	that the tendle	ı,	

### SECTION II: EMERGENCY RESPONSE AND MONITORING PLAN

<u> </u>	EMERGENCY RESPONSE PLAN	
1. If an unauthorized release occurs, haza	rdous substances will be cleaned up by:	
Emergency response requirements beyond the contractor	ie capabilities of our Station Personnel will be d	Jeferrod to a gualified outside
Z. Agency notifications will be made as de responsible for Underground Storage Tan regulations.	talled in Section I of the Contingency Plan, ks (USTs) shall be notified as required by st	and the local agency late and local laws and
Local UST Agency EL SEGUNDO FIRE DE	PARTMENT Phone 310-524-2242	
3. The following persons are responsible f	or authorizing work necessary under the re-	spoπse plan:
Name		
SHIFT SUPERVISOR	SHIFT SUPERVISOR	Phone 310-615-6313
AUDUN AABERG	REGIONAL PLANTS MANAGER	Phone
Name	Title	<u>310-615-6342</u> Phone
ALEX SANCHEZ/STEVE ODABASHIAN Additional Persons	ENVIRONMENTAL SUPERVISORS	210-615-6351/815-8331
- The state of the		
5. The location and availability of the require N/A  5. The maintenance schedule for the cleanure N/A  7. Additional information;	ed cleanup equipment listed in item #4 is as	
	<u> </u>	i
IV. I curtify under penalty of law that I have personal and to the best of my knowledge the information	PLAN CERTIFICATION  ally examined and I am tamiliar with the inform is accurate, complete, and true.	ation provided by this plan
Miled Barne of Owner Connect Constitute Power TCC  Sy. NRG Operators, list  As Authorized Agent  The Authorized Agent		i i 
JP FORM (12/1999 Version)	6	BPF_CACAL SALFILICE

### HINICIED BOOGDAM CONICOLIDATED CODA

### REGULATED SUBSTANCE REGISTRATION

THIS PAGE IS TO BE COMMETTED FUR A STATIONARY SOURCE THAT PANDLES A REQUIATED SUBSTANCE (RS) IN A PROCESS AT OR ABOVE THE THRUSHOLD QUANTITY. REGULATED SUBSTANCES (INCLUDING FEDERAL LISTED AND STATE LISTED FXTREMELY HAZARDOUS SUBSTANCES) MIST BE REGISTERED FOR THE PURPOSE OF COMPLYING WITH THE CELORIFORNIA ACCIDENTAL RELEASE PREVENTION) PROGRAM. THE CWINER OR OPERATOR SHALL COMPLETE A HAZARDOUS MATERIAL STINVENTORY FORM AND A REGISTRATION FOR EACH REGULATED SUBSTANCE PER EACH PROCESS.

BUSINESS NAME EL SEGUNDO POWER, LLC		<del></del>	2
FACILITY ID# 1   FPA ID #   CAR 9000368	48	Z PROGRAMEEVEL∐1 (X) Z T3	3464
NAME OF CORPORATE PARENT COMPANY EI SEGUNDO POWER, LLC	2400	DUN'S BRADSTREET	106
PERSON RESPONSIBLE FOR RMP (Flist Name, Log Name) AUDUN AABERG	246g	, ··· <del>·</del>	246:1
: ATTITUDE 244 LONG: TUDE		REGIONAL PLANTS MANAGER	 107a
34 49 23.3 197 38 44.2 UCES THE FACTORY HAVE SUBSTANCES INSTED IN 40 CFR 365		Y PROCESSES REQUIRE À CLEAN AIR ACT	
APFENDIX A (5HS)?	TITLE V	/ OPERATING PERMIT 2OO YESNO	7459
5:88(P5M) ? □YES 00 NO □ CPEMICAL NAME		AGENOY: EL SEGUNDO FIRE DEPT - CUPA	946
AQUEOUS AMMONIA 29% MAXIMUM BAILY AMOUNT		205 CAS# 1336-21-6	205
2000B GAIL! ONS		278H LINITS IN POUNDS 196,800 POUNDS	221
PROCESS DESCRIPTION -		·· ·	249j
29 5% Aquiebus Aramonia is stored in את עמלפוקוסער	d storece tank v	Villy a maximum canacibust on one	

29.5% Aquieous Aramonía is stored in an underground storage tank with a maximum capacity of 20,000 gallons. The solution is puraped through about 1,450 feet of 2-inch in diameter piping to two individual Sulective Catalytic Reduction (SCR) systems tending into Units 384 bolters. The ammonia solution is Vaporized in the SCRs. This process reduces approximately 80% of the nitrogen unides (Nox) emissions from the boiler emissions.

SRINCIPAL EDUIPMENT

- 1 20,000 gallon storage tank
- 1 1,450 feet of 2-inch in diameter piping.
- 2 SCR systems

CERTIFICATION CERTIFICATION	v. 207
- OIS COMME OF COPYRIDE DE DICEMBER METERS OF MANAGE - Selection of the Comme of th	··· ·: · <b>_</b>
	. !
OWNPG/OFERATOR NAME LESSESUAGE Power, D.C. 2861 Countries and Description	
A LIME TO THE PARTY OF THE PART	246m !
CWRIENOFE SATUR SIGNATURE TO THE MANAGER	
WASTER OF THE TOTAL STREET	246n
( <del></del>	
OFFICIAL USE ONLY DATE RECEIVED DELIGIOUS BY	
OFFICIAL USE ONLY DATE RECEIVED REMEWED BY	i

### UNIFIED PROGRAM (UP) FORM RECYCLABLE MATERIALS REPORT - PAGE 1

(COMPLETE ONLY IF CLAIMING A RECYCLIPIG EXCLUSION OR EXEMPTION PER IISO SECTION 26143.2)

FACILITY ID# (					Page 1 of 2
		E 4000	30040		
BUSINESS NAME (Senior active Duting ANNE or Dist Doing Business Ast)		IR 0000			
EL SEGUNDO POWER, LLC, 301 VISTA DEI	MAR. EL SEGUND	rs 9023	5		
DATES OF REPORTING PERIOD REGINA	NING DATE	O, <u>5024</u>		VG DATE	
EL SEGUNDO POWER, LLC, DOE	S NOT CLAIM A	 NY EXI	CLUSION	S OR EXEMP	TIONS
I. TYPE	OF RECYCLING AC	MVITTE:			
<ol> <li>Do you retrycle more than 100 tournanth of encluded or</li> </ol>	i	<u> </u>	4 If VEC		
exempled recyclable material at the same location at which the material was generated (costs recycling)?	L2 YES (X) NO	İ	Camplete	are 1995) the generate one Recyclable Maleri ele Parts II and V	r and recycler. als Report, Un
2. 36 yeu registe more than 100 kg/month of non-manifested,	'	- 60 <b>a</b> ∱	4 KYESIY	rou are an offsite recyc	the but ove the
excluded recyclinble materials received from an offsite locallion (offsite recycling)?	☐ YPR (X) NO		geneceto	<ol> <li>Complete a Recycle of each generator Рыі.</li> </ol>	able Materials
	<u> </u>			<u> </u>	
-Businessas that only send recyclable ma	Medials to an offsite recyc	Jecs ara n	Ol required to	file this report. —	
	<b>–</b> —	——			
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II. OFFSITE GENE	RATOR OF RECYCL	ABLE	MATERIAL		
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GITY ————————————————————————————————————		<del>S</del> eij sTA	TT -9"	ZIP CODE	. 510
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	RTIFICATION SECT	ON		<del></del>	
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I certify under penalty of law that this decrument and all effects months to designed to assure that quantised personnel property gather and countries the system, or those despty responsible for gethering the intend complete.	were prepared Under my dir iale the information submit formation, the information s	ection or s rd. Cassed i, to the be	upervision in a on my unquiry of at my kyysyd	occisance with a syste of the parson or perso edge and helief, true, a	em ins who sourale,
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	TITLE OF SIGNER				
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I_PA	i District		<u>.l</u> i	NSPECTOR	İ

# RECYCLABLE MATERIALS REPORT - PAGE 2

(COMPLETE ONLY IF CHAIMING A RECYCLING EXCLUSION OR EXEMPTION PER HSC SECTION 25143.2)

	··	(one description per ma	<u>terial recycled, attach additions</u> ' pages, if needed
TOTAL NUMBER OF RECYCLABLE MATERIA	ns	,	Fage 2 of
FASHITY ID# 1 9 0 1	3 3 0 0 0 1 1	1   BUSINESS NAME (Same as	FAGLIST NAME or LKIA - Store Registro Asy
		EL SEGUNDO	
	IV. RECYCLABLE N	MATERIAL INFORMATION	<u></u>
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	MON NAME OF 52:	accusion policing	
NUMBER HEST	YCLABLE MARFRIAL	TWO YEAR	UNITS Use Gallons □ in Trans
		REPORTING PERIOD	Library D. 181
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EL SEGUNDO PO	WER, LLC, BOES NOT	CLAIM ANY EXCLUS	SIONS OR EXEMPTIONS
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RECYCLING PROCESS AND BENH	FIGIAL USE OF RECYCLABLE, MAY	TERIAL	
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NOTIFICIAL INC. P. P. C. P. C. P. P. C. P. P. C. P. P. C. P. P. P. P. C. P. P. P. P. P. P. P. P. P. P. P. P. P.	C SEC FION 25143.2 576	BASIS FOR CLAIM TO AN EXC	LUSION OR EXEMPTION 550
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		l	
	B. PRODUCT AND CONSTITUTE	NT INFORMATION: OFFSITE O	
Only compate if recyclable mater	far was used to make or substitute for	8 product and operating pursuant t	RELY Id HSC Section 254 43,2(b) or (d)(5) or (6).
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HAZARDOUS CONSTITUENT		' R	LIST FINAL PRODUCT(S) MADE FROM THIS ECYCLABLE MATERIAL AND BENFFTTAL USE
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	DOCUMENTATION OF KNO		
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I I DOCUMENTATION IS ATTACH	(S.D.: Offsite recyclers, must attach doo	umentalien that there was a know	Punerket for disposition of the 500
report is submitted to the CLIPA of	tits treintractured from the recyclable of PA. (HSC Section 25143 10(a)(3)()	metenals and provide copy of fli(5 :	eport to the generator when the
	James Assertal States (AlgNoil)	·——	
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"FFICIAL USE ONLY		REVI	EWED BY
AIPA RHIL	<sup>7</sup> A		
	<del></del>	DISTRICT .	<u>'MBFECTOR</u>

# UNIFIED PROGRAM (UP) FORM ONSITE HAZARDOUS WASTE TREATMENT NOTIFICATION - UNIT PAGE

(add page and attachments per inth

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ACILITY ID#			11 BUSINESS NAME (sar	no an PAGLITY NAME of OSA – Coung disa	
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		L TRE	ATMENT UNIT		
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EL SECUN	DO DOMED LLA	DOEC NO	T TREAT ONOS	F 11474555011511	
i cr acgou	IDO FOWER, LLC	Y DOGS MO	I IREAT ONS	E HAZARDOUS W	IASTE.
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(₹OTŴ)/ sev	renng agency of under alt NPOE	3 peimit.	,		
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∏ d. Treatment in :	a totally enclosed treatment ভিনেট	ly.   []	Other (apecify below)		
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니 e - Okapose o Fro	N-Mažau douis solīd waiste residues	salar 🗆 f.	Disposal to land		
offsite location.		□a	Furtiner treatment		
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### UNIFIED PROGRAM (UP) FORM ONSITE HAZARDOUS WASTE TREATMENT CONDITIONALLY EXEMPT - SPECIFIED WASTESTREAMS (CESW) PAGE

WASTE AND TREATMENT PROCESS COMBINATIONS to

	TE AND TREATMENT PROCESS COMBINATIONS IPS	1 - Control the short of the Skery
TEL SEGUND:	O POWER, LLC, DOES NOT TREAT HA	
<del>-</del> , .	THEAT HA	AZABDONES
	Sins mixed or cured in accordance with the manufacturer contains.	TEARDOUS WASTE ONSITE
hus-i <b>uli</b> pusõn	lated inatedais)	S incharge
ີ່ 2. Treatinga ແ		o manufactions (Maluding otherpast and
- c. Heamingajoo	Ontainer of 110 gallons or less opens.	_
56261.7 e/ m	ontainer of 170 gallons or less capacity, which is not con Similar absorptive materials, for the purposes of emptying Title 22 of the California Code of Regulations, as revised the containers that unce held bazantous whether	Structed of world pages
C#EDDVed from	mile 22 of the California Code of Regulations	ng the container as specified by a fabric
frest the con-	takes with the unce held be a revised	July 1, 1990, or the ten former
rinseate are r	Infe 22 of the California Code of Regulations, as revised mempty containers that unce held hazardous waste or the fairer or incer liner by using the following technologies, present in compliance with the applicable requirements sometimes the container or uner liner with a suitable for	inZardous material. The generator about
<ul><li>(A) The geno</li></ul>	managed in compliance with the applicable requirements its constituents the container or uner liner with a suitable its constituents which the confeiner held, and/or, physical processes, such as crushing, should be provided the confeiner held.	Provided the treated containers and
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(B) The gener	rator uses obysical organianteliner held, and/or,	ians capable of dissolving or removing the
only the p	physical properties of the contains	No. Original as as as
bioM080 i	is constituents which the conteiner held, end/or, rator uses physical processes, such as crushing, shreddin subparagraph (A) and the conteiner or liner liner, if the conteiner or liner liner, if the conteiner or liner liner, if the conteiner are record for	ontainer or inner lines in the change
3. Orving Special:	intorfuses physical processes, such as crushing, shreddi physical properties of the container or inner liner, if the container or inner liner, if the container are supparagraph (A) and the rinseate is removed from the wastes, as classified by the Doorst	e coptainer or igner lines
pressing or by	wastes, as classified by the Department pursuant to Title passive or boat-aided evaporation to remove water.	10/01/10/01
	Product of Dear-aided evaporation to rections water	<sup>9</sup> Z2, CCR, Sequen 69284 124, 50
<. Magnetic sopal	ration or screening to remove components from special of 22, CGR, Section 36261.124.	( <b>2-</b> , <b>2</b> )
batteriant to 1999	e 22, CCR, Section aspert and components from special of	WOTE or all the second
5. Not in use/eve-	, 50201.124.	reaso, as crassified by the Department
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<ol><li>Not in use/expm</li></ol>	mied- tomata	and to defiline alize
7	ipled—formerly nestralization of food processing waste.	'
7. Not i <i>n</i> use/exemp	pled—formerly recovery of silver from photofinishing.	I
3. Grevity spource	recovery of silver from photofinishing.	;
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aerming of so	in of the following, including the use of flocculants and di lids from the waste where the resulting aqueous/liquid st	erouls/fiers if
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or base by weight.)	ol alkaline (basic) material by a state certified laborator fron, or a laboratory which treats less than one gallon of To be eligible for conditional exemption, this waste cann (materials to a conditional exemption)	Onsite generated hazardous waste in
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### LIMITED DOCCOAM CONSOLIDATED EDOM

### UNDERGROUND STORAGE TANKS - FACILITY

TYPE OF ACTION				(oat bage bougge)	Page <u>1</u> d.	1
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STATE UST FACILITY NUMBER 424 1998 UPGRADE CERTIFICATE, NUMBER 424	OFFICIAL USE ONLY DATE RECEIVED	CUPA	LV	OIST	RICTANSPECTOR	
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### UNIFIED PROGRAM (UP) FORM UNDERGROUND STORAGE TANKS - TANK PAGE 1

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::		[]. TANK	CONTENTS	·	
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(X)3 CHEMICAL PRODUCT		COMMON NAME One reservoir Marriaginas:		CAS#	2/2
! ☐ 4 HAZARDOUS WASTE IN	левияс Экас Од	AQUEOUS AN	MMONIA	1336-21-6	
□ R5 UNKWOWN			7.4.0.142.1	1 1330-21-0	
		III. TANK CO	ONSTRUCTION	— <del></del>	
TYPE OF TANK	1. SNGLEWALL	DI J. SING: F WALL W		ELWITH INTERNAL BLADDER	
(Check one formonly)		EXTERIOR MEMB	HANELINER 3 95, LINKINOWI		443
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(Check one sett only)	□ Z. STAIN! F\$\$ \$7	•		TIBLE WHOO'S METHANOL   99, OHICK	444
		REMEDIACED PLA			
NK MATERIAL - autocomy for		C 3. FIBERGOASS / PI		<u> </u>	. N
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TANK MILERKIN LINING	* RUBBER LINED		ASTRO (FRP) (THIS CONTINUES)		
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k) 1 SPILL CONTABONENT			100 FALARM		
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□ 3STRIKER PLATE		! <u></u> _	□зништиве знитк	CONTRACT CONTRACTOR	
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🗔 1960м. <b>(Ехнове</b> р ножно	-	LL SIMANUAL TANK GAUSIN	IS (MT%)   □ 1 VISUAL (SINGLE	SWALLIK VALUE ONUY)	
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# UNIFIED PROGRAM CONSOLIDATED FORM UNDERGROUND STORAGE TANKS – TANK PAGE 2

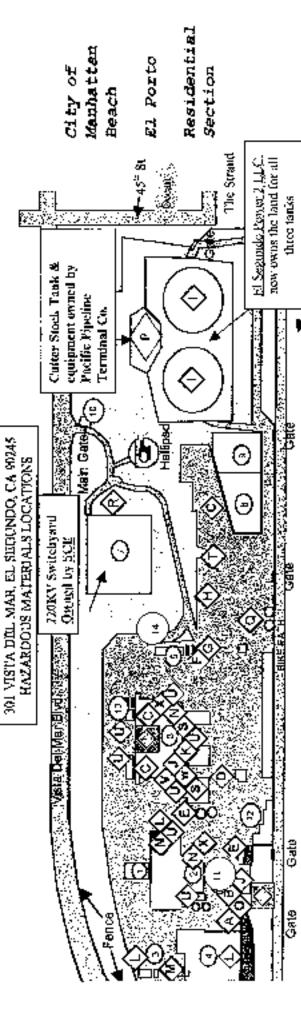
VI. PIPING CONSTRUCTION (CF	perk ali thal pooks
UNDERGROUND FIRING	<del></del>
SYSTEM TYPE (\$31. PARTICULAL   2. SUCTION         3. CRAYO Y	ABOVEGROUND PIPING  450 (XXX) PRESSURE IT 2, SUCTION IT 3 GRAVITY 4
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: _	WOOKTENTS   LIB FLEXBLE (HIDE)   LIPE UNKNOWN
П 4. FuBERCLASS П 9. GATHONIC PROTECTIS	ON LI 4. HISERSLASS LD 9. CATHODIC PROTECTION
12 5 STEELWICOATNAG LI 99, OTHER	464 🔲 5, STICES, WYGOATING 🔲 98, OTHER 48
L VII PIPING LEAK DETECTION Enween I has busy to be	personant of the consistency program could be considered in the most absence)
	ABOVEGROUND PIPING
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PAFS)URIZED PIPING CHICK OF the GLOGIC	PRESSURGED PIRMA (Correctal) (natapprof);
LE 1. BLECTRONIC LIVE LEAK DÉTECTOR 30 CIPH (1951 1957) AUTO PUMP SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM	☐ 1. F: FOTROWIC LINE LEAK DETECTOR 3.0 GPH TEST WITH ALTER SUMP.
DISCONTECTION + AUDIBLE AND VIBILAL A: ARMS.	SHULDIFFOR LEAK, SYSTEM LABURE, AND SYSTEM DISCONNECTION - AUDISER AND VISUAL ADARMS.
CI 2. MONTHLY 0.2 GPu rust	B.F. MONTHLY 0.2 CENTEST .
☐ 3. 4NNU4U'N"(EGRITY TEST (0.1GPH)	CLJ. ANNUAL INTEGRITY TEST (0.15PH) (X) 4, CALLY VISUAL CHECK
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TO SIDALLY VISITAL MONDIORING OF PUMPING SYNTEM - TRENVAL PIPING	
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	☐ 6 TRICKNIAL INTEGRITY TEST (U.1 GPH)
SAFE BUCTION SYSTEMS (NO VALUES IN RELOW GROUNDPIPING):	SAFF SUCTION SYSTEMS (NO VALVES IN ISSLOW/ GROUND PIPINS):
☐ 7 SELF MONTOPHING	LOQY, SELF MONTONING
SKAVITY FLOW	SRAVITY FLORY (New actual spirity)
19. BEYNAN INTSGROY 1EST (0.1 CPH)	☐8 JANNY VISUAL MONTORNAS ☐9, BIETANIAL INTEGRITY (\$2.1 GP-0
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PRODSURZED PRINC (Decided for early)	PRESSURIZED PIPING (Chick et. Estappin).
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□ A AUTO / UNIVERSALT OFF WHEN A LEAK COOLERS	LI S DUTO PEMPISHUT OF TWHEN A SPAK COOLING
□ 6. ALFTO PUMP SHUT OFF FOR LEAKS, YYS 18M FAILUR = AAO SYOUND USCONNECTION	TO AUTO PUMP SHAPL OF LIFTOR LEAKS ISYSTEM FAILURE AND SYSTEM
Do. NO ALTO POW SHUT OFF	D.SOCHERGOTORE
т от тына wichth <u>лик</u> (теат мер д.р. житеяталжаацстимолия и (%)	
OC 12. ANNUAL INTEGRATY TEST (C.1 SPH)	☐ 10 AUTOMATIC LEAK DETECTOR
SUCTION/SRAVITY SYSTEM	☐ 12. AMNUAL INTEGRITY TEST (0.3 BPH)
	SUCCIONIGRAVITY SYSTEM
☐ 15. DON" MUCUS SUMF SENSOR : AUDIBLE AND MISUAL ALARMS	# 7 13. CONTINUOUS SUMPISSIVSOR - AUDIBLE AND VISUAL ALARMS
EMERÇÎNEY GENERATORS DALY (Cres saline apply) EL 14. CONTINUOLE SEMP SENSOF, YATHOUT ACHO PUMP SHUT (2) 1	EMERCENCY RENERATORS ONLY (Copyline Patients)
VODELE AND VISUAL ACAGMS	☐ 14 CONTINUOUS SUMMI (SENSOR WITHOUT AUTO POME SHUT OFF 1
<ul> <li>15. AltToMonio LEAKOFTECTOR (D.0 GEH) WITHOUT FLOW SHUT (§).</li> </ul>	AUDIDLE AND VISUAL ALARMS  IT IS, AUTOMATIC LINE LEAK DELECTOR (3.0 SPH TFS))
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FIGURE 1305 COURS	
FEIGIAL USE ONLY Femili Number 473 Per	mit Approved 474 Permit Expiration Date 475

# UNIFIED PROGRAM (UP) FORM HAZARDOUS WASTE GENERATOR

					PAGE 1 OF		
BUSINESS NAME: EL SEGUNDO POWE							
FACILITY ID ₹ 19013300011	1 NO OF EMPLO	YEES:	138: EPA CAR	ro # 000036848			
	L TÝPE.	OF GENERAT	OROŠIOS		The Propagation of the Control		
PLEASE CHECK THE	FOLLOWING BOXES THAT AP	PLY					
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LARGE QUANTITY CENERA		<del></del>		1			
(>1000 KG HAZARIXOUS W/   &WALLQUANTITY GENERA	TOR		<sup>(X)</sup>		_29		
	WARRICUS WASTE PER MONTH				נח		
CONDITIONALLY EXEMPT S (* 190 KG HAZAROOUS WA	SMALL QUANTITY DENERATOR STEPHEN MONTHS	·	::	Ť			
	0 N	CAM TREASURE					
PLEASE COMPLETE 7	HE TABLE BELOW, SEF INSTE	RUCTIONS FO	RICODES AND E	EXPLANATION.			
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Non RCRA haz waste liquid 'uba niğ	Non RCRA haz waste liquid jiqhe olf)	277	14,000 ga#uns i	Recycle	Crums		
Non RURA haz wa ste liquid (mineral col)	Non RGRA haz waete liquid (mineral nel) w/PCB's >5<50 ppm	† 261/ <u>223</u>	33,030 gallons	· Recycle	Druma		
Non RCRA haz waste bequed (oilly water)	Non RCRA haz waste fiquid (oily water)	134/223	20,000 gallers	Recysic	eracatul		
Non RCRA haz waste liquid [citrle ecid & water]	Non RCRA haz waste liquid (citric acid & websr)	132,	205 gallons	Recycle	Dutius		
Non-RCRA haz waste solid (dust sweep/sand blast grit)	Non RCRA (see waste solid (dust   \$W99(x) said blast gnt witead)	18 <mark>17134/228</mark>	26,300 f/s	Dispose	Drams		
Non RCRA haz waste solid (soil, debris, on)	Non RCRA haz waste solid (suit debris, oil)	ן <sub>יאלא</sub> 	, 20 050 the	Recycle	Druirs		
Non RCRA hez waste solid (lab pack)	Non RCRA haz waste solk! (lab pack)	301	100 lbs	Recycle	Onme		
Mon RORA haz Weste solid (>5<50 ppn1706's)	Non RCRA haz waste solid (>5<50 ppm PCR'4)	26:	300 lbs	Recycle	Drums		
Wasle Asbestos Debris	Waste Asbestos Dobres	151	3,650 bs	Lancill	Drums		
Waste Spillurie Acid	Wasie Sulforic Acid/Waste Baltierv Acid	101	1,490 lbs	Treal & Dispose	Drups 		
Waste caustic attali, timeri ammonium hydroxide)	Waste coustic alkat, liquid (ammorphism hydroxide)	ē51 <sup></sup>	SiD gallons	Recycle	: Drams		
Vaste Литонаšile liquid lab pack)	Waste flammable liquid (Sab pack)	147.543*	690 gatone	r Resycle L	Diums		
Vasia Sodium Hydroxide olațions	Weste Soutum Mydroxide colletions	135	200 bs	Recycle	Orams		
1sto Mercuty Thiocyanate	Waste Mercury Theocyanate Debris	181078	410 los -	Lanerii			
vaste Mercury Thiodyanate iguid	Waste Moreory Thiocyanate Liquid	725	65 galtons		Dr.ims		
·	<u></u> -	:	' i		<u></u> : ;		

# UNIFIED PROGRAM (UP) FORM HAZARDOUS WASTE GENERATOR

PROCESS"	WAS1E DESCRIPTION G	· WASTE ID D	AMOUNT E	! DISPOSAL F	PAGE 2 OF 2 I STORAGE TO METHOD
Waste Flambable Schol, Organic	Waste Flammable Solid, Organic (Paint)	352	4150 Us	Rocyrle	Ditims
Waste Flammable Lixuid	Waste Flanusuble Liquid [Vieste paint & throner]	214	1 55 gallons	Recycle	Crums
Waste Aprosol Caba	Waste Aerosolis	252	. 350 tos	lacineate	Druics
Waste EDYA www.ter	Waste EDTA Wweter	135	500 ibs	j Recycle	านพร
Waste Lube Off	Petroleum Distillates	½ <sub>721</sub> ———	13,750 gallons	Recycle	Drums
Waste Oil Fatters	Waste Oil Filters	13 <u>50</u> -	, 1500 bs	Treal & Dispose	i Drams
I certify that the informat	tion provided herein is true and a	corrate to the be		· - <u>·</u>	
I certify that the information NAME  OWNER/OPERATOR NAME  AUSTIN AABERG  OWNER/OPERATOR SIGNAT	El Segundo Power, LLC TAIC NRG Operations, Inc. TRANSPORTED Agent	- OWNER			
OWNER/OPHRATOR NAME AUDUM AABERG	El Segundo Power, LLC TAIC NRG Operations, Inc. TRANSPORTED Agent	□ OWNER	est of my knowle	MANAGER	·



EL SEGUNDO POWER, LLC

# O BUILDINGS/STRUCTURES

- Administration
- 2 Units 1 & 2 (Retired)
  - 3 Equipment Storage
- 4 Wardbouse & Maintenance Shop
  - 5 Units 3 & 4
- 6 Demineralizor Building (Rethert)
- 7 Switchyard (Owned by Bo.CA Edison)
  - 8 Waste Weter Retention Sasin 9 Acid Refention Basin (Retired)
    - 10 Security Guard Statton
- 11 Chemical Storage Room

  - 12 Technical Shop 13 Empty Barrier Storage
    - 14 Bishe Tank

Assembly Areas

# MATERIALS STORAGE

- A Compressed Gas Bottles
  - B Diesel Fuel & Gasoline C Lubricating Oli Storaga D Hydrogen Storaga
    - E Sodium Hypochlorite
- F Sulfuric Acid (Retired)
- G Sngium Hydroxide (Rettred)
- H Hazardous Wasie Slorage Area Fuel Oil Tanks (Retired)
  - J Trisodium Phosphete
    - K Nalco Elimin-Ox
- L Paints & Paint Thirmer M Solvent Degreaser

- N Eubrication Oll Drums
  - O Naico 7330
- P Cutter Stock Storage Tank (Owned by Pacific Pipeline) © Urea Storage Tanks (Retired) R Aqueous Ammonia Storage Tank
  - S Aqueous Ammonia Injection Skid 7 Fuel Ges
    - U Mineral Oil
- V Naico BT-3000
- - W Nitrogen

EL SEGL'NDO POWER LLC Fizzardous Materials Locations Jumusy 30, 2004

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

								/	a per mehvist por bukci	
	∐!:J+3 + [	E (X) RE	WSE 28WS	RE	PORTIN	G YEAR	2004		Tid Page 1 of	56
			ACILITY IN							
LIBURINESS NAME	(Same as FACILITY NA)									
	DO POWER, LLC		,							-
CHEMICAL LOCAT					301 g	энЕМІСА	at race	A LKON CON	IFICENTAL	565
! SOUTHWEST O	OF WAREHOUSE, QTH	ER LOCATIONS				ниска (		☐ YES		
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¦ '	· <u> </u>			i. l	'				A	
		JI. CI	HEMICAL J	M-DKWY						
CHEMICAL NAME					203	RAIR S	ECRET	• • •	∐Yes (X)Nu	
!	ACETYLENE (	C2H2}					1969	NO WIEDERAL!	ele is malusems	
COMMON NAME					20/   6	PST			Tyes (X) No	200
GAS#	74-86-2				ж.	II EHS &	TY86", 6	el amounta l	selow must be in libe	; '
FIRE CODE HAZA	RC CLASSES (Complete #	regional Sections								সং
HAZARDOUS MATER	40eT								AUDITA	219
L 1992 (Check one 4ar	T 004) (X) 4. PURS	□L. WIXTURF □	s,WASIE	PAU RAD	HOUNG NO	Е ПУс⊾	(A) No	252	CURIFS	
PINYSIGAL STATE										255
Check on a from only:	□ <b>e</b> .5000 i	⊒ഡലയോ ∧വും	. GAS	714 LAR	CEST CC	roj AlkEk	292			
FED HAZARD CATES										215
(Check all that apply)	(X) or FBR∃ [	□ L. REACTIVE (XG :	с. РУ.ESФ.ЖЕ К	REUBASE (	X; d. AC	UTE HEAL	-74 U	e. CHRONI:	S HEALTH	
AVSRAGE DAILY AM	OUNT " 797	MAXIMUM DALLY AN	kxwa	ويهوا مط	OAL WAS	STE AMOU	INT	21V 87	ATE WASTE GOOS	750
3530		10950		1	N/A				N/A	
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UNITS* (C'erch uner Jenn méy)	Da. GALLON\$	(x) is l'Ouellairee ( risi PHS, amount p			V5 			I .	355	
STORAGE CONTAINSE □ 3	. ABOVE GROUND TANK	☐ a PLASTICNON	NMETALLIC SIDI	IM LLL CA	NEW INDIA		دالاد	some i	∏ ų, RAUL CARI	
	UNDERGROUND TANK	J. CAN	100 100 100 100 100 100 100 100 100 100	— <mark>Б</mark> , Б					Π r. OTH≣R	
	TANK INSIDE BUILDING	☐ g. CARBOY		□kBa	x.	□ o.	(O)E (	им		
<b>□</b> a.	SYEEL DRUM	TI N. SLLCO		211 404	llunea.	:'[-	YANK W	VAGOR		
-				(x) 1 €Y3	12141111 74					77.3
OTOBACE PRESCU										7.3
STORAGE PRESSIN	Č □a. AMBUN	T (N) b. ABOVE	AMBÆNT	E ∈ Bāk						274
STORAGE PRESSING STORAGE TRYPERA		.,			ON AND	FNT	Lie a	RYOGENIC		
STORAGE TRYPFRA	TRE LIV. AWSEN	F. s. ABOVE	AMBIENT	(2) a. SE.	ON AND	FNT FNT	∐a ≊	RYDGENIO		274
		F. s. ABOVE	AMBIENT	(2) a. SE.	ON AND	FNT	∐គ់ខា	RYOGENIX	CAS.≠	274
STORAGE THYPERA	TIRE LIV. AWBEN	F. s. ABOVE	AMBIENT	Die Bate (20 c. SE.) (ste only)	ON AMB	FNT FNT AHS				798
STORAGE TRYPFRA	TRE LIV. AWSEN	F. s. ABOVE	AMBIENT	(2) a. SE.	ON AMB	FNT FNT	∐a ::l	RYOGENIO 74-86-2		274
STORAGE TRYPFRA %WT 1 99.80 ഥ	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	Die Bate (20 c. SE.0 (ste only)	CNV AME	FNT FNT ≟HS	28	74-86-2		774
STORAGE THYPERA	TIRE LIV. AWBEN	F. s. ABOVE	AMBIENT	Die Bate (20 c. SE.) (ste only)	CNV AME	FNT FNT AHS		74-86-2		798
350RAGE TRVPFRA 36WT 1 99.80 :28 2 0.20 29	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	(2) 6. SE. (2) 6. SE.	CAV AMB	FHIT FINT AHS TING	248	74-86-2		274 275 276 276
STORAGE TRYPFRA #WT 1 99.80 :==	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	Die Bate (20 c. SE.0 (ste only)	CAV AMB	FNT FNT ≟HS	28	74-86-2		774
350RAGE THVPFRA 36WT 1 99.80 :====================================	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	(2) c. SE. (2) c. SE.	CAU AMBI	FNT FNT EHS  No	278 282 281	74-86-2		274 275 276 276
350RAGE TRVPFRA 36WT 1 99.80 :28 2 0.20 29	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	(2) 6. SE. (2) 6. SE.	CAU AMBI	FHIT FINT AHS TING	248	74-86-2		274 275 276 276
######################################	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	(2) c. SE. (2) c. SE.	CAU ALIFA CAV AMBI  TYEE  TYEE  TYEE	FNT FNT AHS ING	2/8 262 2/91 240	74-86-2		775 776 776 223
36WT 1 99.80 :== 2 0.20 29 8 214	nae ⊔v. aveth HAZARDOUS CO Acetylene	F. s. ABOVE	AMBIENT	(2) c. SE. (2) c. SE.	CAU AMBI	FNT FNT EHS  No	278 282 281	74-86-2		775 776 776 223
#6WT  1 99.80 :28 2 0.20 230 8 204 4 276 5 242 1.mme taganon	R.RE LIV. AWSEN HAZARDOUS CO Acetylene Acetore	F. 5. ABOVE	AMPIENT	267 289 289 289 289 283	CNV AMERICAN PROPERTY OF THE P	FNT  EHS  No  No	2/8 282 2/9 240 240	74-86-2 67-54-1		774 775 776 277 227 245
#6WT  1 99.80 :28 2 0.20 230 8 204 4 276 5 242 4 276	HAZARDOUS CO Adecylene Adelote	I F. S. ABOVE	AMPIENT	267 289 289 289 289 283	CNV AMERICAN PROPERTY OF THE P	FNT  EHS  No  No	2/8 282 2/9 240 240	74-86-2 67-54-1		775 775 273 227 227 245
#6WT  1 99.80 :28 2 0.20 230 8 204 4 276 5 242 4 276	R.RE LIV. AWSEN HAZARDOUS CO Acetylene Acetore	I F. S. ABOVE	AMPIENT	267 289 289 289 289 283	CNV AMERICAN PROPERTY OF THE P	FNT  EHS  No  No	2/8 282 2/9 240 240	74-86-2 67-54-1		774 775 776 277 227 245
#6WT  1 99.80 :28 2 0.20 230 8 204 4 276 5 242 4 276	HAZARDOUS CO Adecylene Adelote	I F. S. ABOVE	AMPIENT	267 289 289 289 289 283	CNV AMERICAN PROPERTY OF THE P	FNT  EHS  No  No	2/8 282 2/9 240 240	74-86-2 67-54-1		775 775 273 227 227 245
#6WT  1 99.80 :28 2 0.20 230 8 204 4 276 5 242 4 276	HAZARDOUS CO Adecylene Adelote	I F. S. ABOVE	AMPIENT	267 289 289 289 289 283	CNV AMERICAN PROPERTY OF THE P	FNT  EHS  No  No	2/8 282 2/9 240 240	74-86-2 67-54-1		275 276 277 227 227 245
STORAGE THYPERA  96/WT  1 99.80 ::::::::::::::::::::::::::::::::::::	TURE LIV. AWBEN HAZARDOUS CO Aperyliene Abelone  Consesse presentationale of the content of the	I F. S. ABOVE MPONENT (For in	AMPIENT  Dixfure or way	© ∈ Bate (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.)	CAV AMB	FNT  EHS  No  No  No  No	2/8 /82 /2/0 240 /244 /244	74-86-2 67-54-1	u rapiuring the rapidra	274 775 276 227 227 245 4 746
STORAGE THYPERA  96/WT  1 99.80 ::::::::::::::::::::::::::::::::::::	RE LIU. AWSEN HAZARDOUS CO Acetylene Acetore	I F. S. ABOVE MPONENT (For in	AMPIENT  Dixfure or way	© ∈ Bate (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.)	CAV AMB	FNT  EHS  No  No  No  No	2/8 /82 /2/0 240 /244 /244	74-86-2 67-54-1	u rapiuring the rapidra	274 775 276 227 227 245 4 746
STORAGE THYPERA  96/WT  1 99.80 ::::::::::::::::::::::::::::::::::::	TURE LIV. AWBEN HAZARDOUS CO Aperyliene Abelone  Common St. Pristrum and of the control of the c	I F. S. ABOVE MPONENT (For in	AMPIENT  Dixfure or way	© ∈ Bate (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.)	CAV AMB	FNT  EHS  No  No  No  No	2/8 /82 /2/0 240 /244 /244	74-86-2 67-54-1	u rapiuring the rapidra	274 775 276 227 227 245 4 746
STORAGE THYPERA  96/WT  1 99.80 128  2 0.20 290  3 204  4 276  4 276  4 176  4 176  4 176  4 176  5 174  Times baseous compoundementain  ACIDITIONAL LOCA  II EPORA, Fleese 5) (Facilities reporting Compoundementain)	TURE LIV. AMBEN HAZARDOUS CO Aperyliene Abelone  Control Contr	I F. s. ABOVE MPONENT (For m  Ium 19 ty weight if for each RMATION  RA reparting threets	AM2ISNT  Dixfure or way  Ancongress, or it is	© ∈ Bate (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.)	CAV AMB	FNT FNT SHS ING 40 244 add tomal	74-86-2 67-54-1	u rapiuring the rapidra	274 775 276 227 227 245 4 746	
STORAGE THYPERA  96/WT  1 99.80 ::::::::::::::::::::::::::::::::::::	TURE LIV. AMBEN HAZARDOUS CO Aperyliene Abelone  Control Contr	I F. S. ABOVE MPONENT (For in	AM2ISNT  Dixfure or way  Ancongress, or it is	© ∈ Bate (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.) (% c. SE.)	CAV AMB	FNT FNT SHS ING 240 /244 /244	74-86-2 67-54-1	u rapiuring the rapidra	274 775 276 227 227 245 4 746	

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

CIADD BOELSTE 00 REVISE REPORTING YEAR 2004 200 Fees 2.0	/ 5€
I. FACILITY INFORMATION	
BUSINESS NAME (Seme as FACILITY NAME of DBA – Doing Business As)	9
EL SEGUNDO POWER, LLC CHEMICAL (OGATION CONFIDENTIAL CHEMICAL (OCATION CHEMICAL CHEMIC	200
UNDERORDUND STORAGE TANKINEAR DUARD SHACK (EPCRA! TES 00 NO	
FACILITY 13 # 1 9 0 1 3 3 0 0 0 1 1 1 1 1 1 1 1 S	204
II. CHEMICAL INFORMATION	
CHEMICAL NAME  WAS TRADESECRET YES (X) No	206
AMMONIUM HYDROXIDE (NH40H) 18:06-11-0-12-12-12-12-12-12-12-12-12-12-12-12-12-	208
CASH ZES TEST YES, at amounts below investor in 1	0.0
FIRE CODE INAZARD CLASSES (Consolete American to 100.790)	<u>2:0</u>
HAZARDOUS MATERIAL TYPE (Check end but only)	213
PHYSICAL STATE  (Check pro tiem phis)	žяs
FED HAZARD CATECORIES  (C'ende et illes expets)	2.0
AVERAGE DALY MACUNT 237 MAXIMEM SAB Y AMOUNT 255 LANNIAL WASTE AMOUNT 256 , STATE WASTE COST	5 720
15000   20000 N/A N/A	
URTO: (X) # GALLOWS Elle, CUBIC FLOY Ellis, POUNDS Ellis, 1095 (Chuck one Bern only) 7 FEHS, smooth most 59 in pounds.	772
STORAGE OCNTAINER ( a. ABOVE GROUND TANK ( ) n. PLASTICINONAIFTALLIC DRUM ( ) i FIBER DRUM ( ) n. CLASS BOTTLE ( ) n. RALICAS	
(C) S. UNDERGROUND TANK	
□ s. TANK INSIDE BUILDING □ g. CARSOY □ k BOX □ o. TOTE BIV	
□ d. STEEL DRUM □ f. N. SLO □ f. CYCUNDER □ β. TANK YNAGEN	277
STORAGE PRESSURE LEA AMBIENT (X) B. ABOVE AMBIENT F3 & BELOW AMBIENT	2>4
STOPAGE TEMPERATURE	225
%WT HAZARDOUS COMPONENT (For mixture or waste only) FHØS CAS#	
1 26 00 ≥24 Ammonium Hydroxide 77 □ Yes □ No 224 1335-21-6	779
2 72.00 29 Water 20 No 75 7732-15-5	3222
3 294 No 234	മറ്
1 290 ☐Yes ☐No 240	241
5 245 TYee DNo 214	2=5
Final Next Describes Comported as a prover stighted than 1% by weight a non-care expende, or 0.1% by weight a care magnetic, attains additional shorts of paper representing the requirements of the paper represents of the p	.red · · · · ·
ADDITIONAL LOCALLY COLLECTED INFORMATION	<u></u>
If EPCRA, Flexese Sign. Here	
(Fucitions reporting Chamicals subject to EPCHA reporting thresholds must sign each Chemical Description page for each EPCFA reported chami-	J. J.
DESCRIPTION AND A LOCAL PROPERTY AND A LOCAL PROPER	i
DIV BN STA OTHER DISTRICT SIDE PA	

# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

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							<u>l.</u> F#	rciri <u>t</u>	Y INFO	₹MA	TION						
	SEGL	OCAL	es EAC POW	ILITY N ER. LI	IANZ : LC	ordBA (	Dang 3: 	ISISBSS. /	\a} 								
, CHEMICAL VVAR			uTH SI	DH AND	ואדס ג	ER LOGA	TIONS				221	GREMIC (EPGRA			CONFID SS (x)		201
FACILITY	IC#	1 9		0 1	3	3	0	0   0	1 1	`	<b>W</b> A <i>P</i> # (	, (i.i.)		yes.   C	नाट# (क A		
<u> </u>						- 1	II. CH	EMIC/	IL INFO	RMA	HON						
CHEMICAL	. NAME		ARGO	DN			-	_			75.E.	TRAD€ S			_	res (X) to outset a	
COMMON	NAME				ED A	RGON	GAS				257	£RS*		··· —		fes (X) f	
CAS#	<u> </u>		7440-								299	TFEHS A	"YR5", i	all ameu	rts belg	wimusa be	e n bs.
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PHYSICAL 5	leni ni <del>liy</del> i			1. 50 JC	□ь.	LIOUES	(X) n ·	GAS	2.4	LAR	aesto	CNTAINE	282	:			215
FER HAZAR (Cassinal ilu	भी साहनेही		П	. FIRE					RE RELEAS			UTE HEAL		н. ÇHR:	омка на	ALT4	7'5
AVERAGE D		K.X.M.I.		217	MA	X <b>MALIN</b> TIA	H.Y JUNO	UNT	ЖD	AMN	DAL WA	ISTÉ <b>AVA</b> O	UNT	JAR	57.970	WASTE	2003 7/0
850	<u>.                                    </u>				J <u> </u>	141	0				<u>N</u> //	١			' 	N/A	
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STORAGE CONTAINER	- □ -	APONE	GRIT	IVO TAN					DREW [	l s ma			c				
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		TANK L		UJU <b>O</b> ING	; П	g. CARBO	Υ		Г	l k BO	OC .	길이	IUTE E	unc.			
	Пс	. STE9	D9.M			h. SILO			(4)	r. on	пирея	□ p.	TANKU	MOEAN			272
STORAGE P	RESSU	RE	B≖	AMSE	NI	69 b. A	ABOVE A	MEIFOT		. BEJO	XVV ANAB	IENT					234
STORAGE 1	EMPCRA	TURE	D:	AVRE	NT		ABOVE A	MEENT	PQ 4	, DLL	OW AMI	SEVT	□ #   DI	RYÖSEN	IIC	<u> </u>	735
95W7	r 	HAZ	ARDO	00800	OMPC ——	) TRIPIN	Enr mi:	xture or	waste or	ıly)	 	EHS		i		CAS#	
:	200	ARG	ON							775	î l Ye	9 (x) XIV	128 	7440	-37-1		259
2	<b>-3</b> 1	į <u> </u>				-·. <u></u>				221	□Y≃	No	252				292
3	254	ا : -—								7/±	Li¥e	s □ No	.796	_			257
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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY -- CHEMICAL DESCRIPTION

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	DD .	Diserren	<b>ት</b> ()	() REVISE	RE	PORTIN	NG YEAR	2024		200 Pyge 4 / / S	ia
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	-	as FACILITY N POWER, LLC		Doing Business As	s;						3
CHEMICAL L		0172.4, 220	·			:	CHEMIC/	CLOCATI	ON GON	IFIDENTIAL	202
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		SBESTOS				207		t Support	ELCSV L	Merik odnitkra	2.8
COMMON N	–	- : :	SIUSCON	TAINING DEB	RIS	204	FPS"			☐ Yes (x) No	
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STORAGE CONTAINER		GROUND TANK MAT BRUCSS	☐ e. P.A811 ☐ f. CAN	CMOWNETABLE D	ROM □ (.1) □ (.9)		UM 📴	QLASS BO PLASTIC B		□ q PWLEAR (X) r OTHER	
	∐ c TANK II	NSIDE BUILDING	□ а САКВО	٣	55 k, 8€	OX.	□ 0	TOTE RIM		¤ол <u>ав е Сомеле</u> -	
	(X) 4 STEEL	. DRUM	☐ h. SLC		□ c.	YUNDER	م] :	TANK WAC	:DN		273
Shokaga PR	F5SURF	(x; a. AVBE)	i7 □ 6.7	BOVE AVIDLEN	[7 a 00]	LOW AMI	DICNT				274
STORAGE TE	MESHATURE	(x) a AMB(E)	¢τ □ <b>□</b> σ /	TROUGHA EVORE	11 a BE	:OWAW	91[ИТ	□ ¢ CRYC	GENIC		275
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4	2.0				236	.∏Y:	ıs 🗆 Ve	7 <b>41</b> :			241
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rf more hazaidos	j Diverpantant	w Suwanni a <u>l Banavar</u>	than 1% by weight	Hicon-calcinogenus, o	r C.1% by weigh	tif careire	ogenic, ettec	h eddihanei w	ooals ol pa	gias capagalag san magali	M-3
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# UNIFIED PROGRAM CONSOLIDATED FORM HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION

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EL SEGUNDO POWER, ELC  SHEMICAL TOCATION  SHEMICAL TOCATION CONFIDENTIA  GENERAL TOCATION CONFIDENTIA  (EPCRA) SHE YES (K) NO															360											
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WASTE SULFURIC ACID  COMMON NAME WASTE BATTERY ACID  FRACE															☐ Yes (X) No <sup>DR</sup>											
CAS# 200 "if EHS is "Yee", all amounts below hit															•											
															710											
HAZARDOUS MATERIAL TYPE (Check one from only)														IRILS	J72											
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AVERAGE DAN	•	JNT		"				OM. W											E AMENI					WASTE GODE	970	
110								1	10	1							14	400	)			L.		181		
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STORAGE CONTAINER			GRO RGHOU				99		.45.		-							RLLY						RAIL CAR OTHER		
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ı	_		Lacur					h. 314									'UNDER	3		TANKW					233	
STOPAGE PRESSURE (a) & AMBENT [] IN ARTICLAMBIENT [] II. BELOW AMBIENT														221												
STURACE TEMPERATURE (a) A ANRIENT     III ARITUF AMBENT   21 6. DELOW AMBIENT   21 6. DRYOGENG															226											
%WT HAZARDOUS COMPONENT (For mixture or waste oily) 7HS													CAS#													
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2 90.00	230 3	Wal	ter					-								<b>2</b> 1	<u>.</u> ∴~.	:5	⊔ No	7.0					211	
3	m j						·							,		222	j G r	05	⊒ No	725					207	
4	221														. 2	25	 	**	∐i No	240 1					361	
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I JADO		TE	(x) REVISE		PORTING YEAR	2004	200 Page 6 of 50	5
				Y INFORMAT	ION			
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	NDO POWER, 13	C			. 49	<del></del> :		
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animanon name			п. снеміса	L INFORMA				
CHEMICAL NAME	HELIUM				705 TRADES		☐ Yes (X) No	300
COMMON NAME	COMPRESSE	NECTION C			<sup>207</sup> ЕНЗ-	180,00166	PCPA where menuations	208
CAS#	7440-59-7	3 TILLIDIA G				v "Vec" all am	☐ Yes (X) Na cunts below must be in bs.	<u> </u>
	RD CLASSES (Forgard	dicentified by Callet				s 165, <u>an el.1</u>	COLIS DEDMINICS DE LI ES.	270
i HAZARDOUS MATER			<del></del>	i	_	- —	1	312
TYPE (Check one har		□E, MXTURE	∐ s.W/STE	21' RAD	KOACTIVE DYW	s (X) Mo	717 CURDES	
PHYSICAL STATE				214 I LAW	^	R 283	`	715
(Chrisk one linin only)		⊟e ικόπου	∐ e.GAS		SEST CONTAÎNE	- 250 	2	
FED HAZARO CATEG (Check sili that apply)	ORIES □ × FIRE	LIB REACTOR	1 00 r 5065911	BEBEIENSE O	OUL ACTUR HEAD	TH 00 - 21	RONG REALTH	219
AVERAGE DAILY AND								
	<b>3</b>	Stocker's De	ULY ÁMÓUAT	3:4 1	UAL WASTE AMO	U.W1 21	ALL DOOR TO WASTE GOOD	220
282		846	i.		N/A		N/A	
HNITS:	Ela, GALLON		FEET (To.PO	жи <mark>мое (С</mark> ато)	NG.	771	SAYS ON SITE: 365	297
STORAGE : CONTAINER     a.	ABOVE CROUND TAN				ED 1001 M	CLASS BOTT	LE DIRALCAK	
	UNDERGROUND TANK	E r can	wante i factio			PLASTIC BO	TE CONFES	
, Πέ.	TANK PASIDE BUILDING	B B. CARRA	YC	□ k 900	к по.	TOTE BEN		
	STEEL DRUM	□ in and		00 L 64	UNDER 17 s	. TANK WAGO	ON .	223
STORAGE PRESSUR	E ∏iAMBE	NOT (x) u	ABOVE AWRIENT	∐ n 803.0	W ANDENI			214
STORAGE TEMPERAT	1098 C.a. AABB	эмт □ь.	ABOVE AMBIENT	(X) a BELL	WW. AMBIEN 1	□ d. GRYO3	ENIC	225
%WT	HAZARĐOUS C	OMPONENT	For mixture or	waste only)	i HS		CAS#	
1 736				=# j	□ Yes □ No	224		2781
2 230	_				D. D.	·		
230				25	□Yea □ No	223		270
: 3 29				235	☐ Yes □ No			227
					<u>□ 1∞ 171∞</u>			
4 286				273	□Yes □ No	243		241
5 747 i				251	EYrs ∐No	744	·	34s
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		_DELET	<u> </u>	(X) REVISE			G YEAR 20	04	200   Page 7 of 9	56
				I. FACILITY		TION				
	(Same as FAC INDO POW			Dong Business As	)					2
CHEMICAL TOCA							CHEMICAL ( (EPCRA )		NICONFOERTAL YES (X) NO	252
HYDROGEN STO	RAGE AREA, I	TAIL WAY	(CRTHWES)	[ 5(02,8 384 DEN	ERATORS		<u> </u>			
FACILITY:0#	1 9	0 1	່3 [∹ຶ່ 3	0 ' 0 <sup> </sup> 0   1	1   1   Î	WAP# (v	16.4-70 1	2.6	GRID# (estera)	27.4
—· - '				II. CHEMICAL	INFORM/	ATION	·	- '	-	_
CHEMICAL NAME						wes ye	FRADE SEC	RET	∐ Yes (X) No	200
i	HYDR	OGEN						F Subject Sect	SACINA, while to instructions	
GOMMON NAME	HYDRO	GEN C	OMPRES	SED GAS		207	EHS'		Tes (X) No	238
C45#	133374	Đ					IF CHIS IS TY	'es", altam	cunts below must be in the	
FIRE CODE 4AZA	RD CLASSES	(Lumpetar é	Configure by CO	AI						2.5
TYPE (Check one (e)		L PURE	Пъ. махтика	C C WASTS	2-1 RA	околосты	F LlYes (	YJ No	717 CURIES	212
Phrysical Stant (Check one dem only	) Lia	soup I	⊑ь, счасно	MA C GAS		ROEST CO	NIANER	3500		:23
FÉO HAZARD GATE: 1Check all that opply:		.FRE	F. b. REACTN	/E (X) 6.95E9SUR	E RELFASE	CA b(X)	IITE HEALYH	 1 Шеоп	HRONIC HEALTH	776
AVERAGE DAILY AM	CUN?	217	MAXGARURA C	ALY AMOUNT	244 AN	MUAL WA	STÉ AMOUNT	r .4	V / STATE WASTE CODE	220
30000			400	DO		N/A			N/A	
UNITS* (Cowdf one item obly)		CALLCINS		CFEET ☐ e POU		CNS		24	DAYS ON SITE: 365	222
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	TANKINSIDE I		Ш д. слия	104	□ k B		_ n		THE MIL VINER	
I	I. STEEL DRUM		LT h. Stup		_	 YUNDER	_	ANK WACK	nn .	1229
STORAGE PRESSE		AMHUEN	I (X\b	ABOVE AMBIENT	Π c. BE	OWANE	——·· - · · ·			224
STORAGE TEMPERA		AMBIEN		ABOVE PLABRENT	(X) c. BC			d CRYSS	ENIC	
%W1	HAZARDI	00 8 UC	MPONENT	(For musture or v	waste only)	:	FHS	į	CAS#	
!" ·1 23€	ĺ				777	∐ Yes	5 🗆 Mo	228 -		229
2 avr	1		-		<u>=</u> 29	□Yes	⊒ Na	202 ·		7.12
3 724	<u> </u>				 206	□ Yes	 ⊶د⊟ء	Z1K		207
4 235	:				290	l ⊟Yea	<u></u>	243		241
 5 242					20)	-i	_ ∏No	244		243
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Iria:musa							ac maximum		- Grada espisi-ajak esaik	398
ADDITIONAL LOCA	4.14 GOV155.	i e ta Para	IRMA HIOM							
45557 8										
.1 EPCRA, Please Si (FacAdas reporting ( ————————————————————————————————————		eaf foi EPC	TA reporting	) thresholds must ai	ign each Coan	пиля! [Лев:	ofplion page	lor each	CPGPA reported chemical	y
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	□ø£†£	76 (x	REVISE	RE	PORTING YEAR 20	XX4	XO   Page 6 of	156
			FACILITY I	NFORMAT	TION			
	(Same as FACILITY N		ng Rusiness Aa)					.3
LE SEGO LONGMICAL COCA	MDO POWER, LI	<u>.c</u>			20 LONEMOCAL			.10
LNTS384					(EPCRA)	LOCATION CO YES	(X) NO	
=AC LITY C#	1 9 0 1	3 3	0 D D 1	1. "	uAP# joraenal)	83   GRID	# (edae) H	212
·	1 :	1 8:500/1 :_	CHEMICAL	INCORTEA	TION		יי	
MITTERSON NAME			CHEMICAL	INFURMA			150 000	206
CHEMICAL NAME		Y THIOCYANA	· TC		TRADE SE		☐ Yes (X) No	
COMMON NAVE		ERCURY THIS		EBBie .	2% EH5*	1909500	inter to industrial  Yes (X) No	20
GAS#			O IMMATE D	EDIGO	-110	Vecal sell error rele	Diges (A) No	
	 .HD GLASSES (Symple:	e Sura And In Care 3			1 11 21 3 15	103,213110332	SEON I ILEGE III ID	ັ∵ <u>າເ</u>
HAZARDONS MATE				. i	- · ·		·	27.5
TYPF (Check says to	in only) Lille, PURE	LI b. MIXTURE	(X) c. WASTE	.h. RAD	*CACTIVE ∐Y⊭e i	(c) Nn 217	CARRES i	215
AHYSKIAL STALE Street one her soly		CHOCKE A CO	⊡ c.GAS	254 LVR(	GEST CONTAINER	55		
FEG HAZARD CATE (Check off that upply)		П.Б. ЯЕАСПУЕ	□ △ PRESSURE	RELEASE (	a) н АС.:TEHFAJT:	1. ∐le, cilisora	CHEALTH	3:6
AVERAGE DAILY AM	OUNT 127	MAXIMUM DAE	TRUCMA 9	256 ANIQ	UPL WASTE AND JA	n 2001 5	TATE WASTE CODE	220
100		440		<u>!</u>	410	:	181/725	
UNITS* (Chock aso flam artly)		NS ∐L CUBIC FF 1 FHS anno	FT (X) to POUNA and amost be in poun	us Liatio+ ds	<del>1</del> 5	221 · DAY	S ON SITE	220
	E ALIQVÉ GROUND FAN LUNDERGYSUND FAN		AMONIMETALUIC DI	RUW ☐ i.FIE ☐ j.B&		SLASS BOTTLE MASTIC BOTTLE	∐ q. RA/LICAR	
	TANK OFFICE BUILDING			☐ k.BO		OZE BN		
	STEEL DRIJM	_ h sa(n		E i. on		ANK WADON		222
STORAGE PRESSU	RE (x) n. AMBLE	NT LL±An	CWI, AMUSENI	☐ e. BELC	OW ANDENT			224
STORAGE TEMPERA	ATURE (z) a. 4MBE	ENT DE AS	OVE AMBIENT	ಟ ಪ್ರಶಾದ	JAY / JAMBIEN F TO	d. CRYOSSNIC		223
%WT	HAZARDOUS C	а) тизисямо	or mixture of wi	aste only)	CHS		CA8#	
1 226	Mercury Thiocya	anate		73.1	Li Yes Li No	770		779
2 ×c	i			221	□Yes □ No	25		215
3 2%	<del>i</del>			224	☐ Yes ☐ Na	235		757
4 272				290	 □Yes □ No	74G		241
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				(A)	REVISE	RE	PORTING YEAR	2004	200   Page 9 of 5	6
						/ INFORMA	TION			
BUSINESS NAW EL SE		es FACILITY > POWER			ng Business A	6)				9
CHEMICAL LOC	NOITA								ON CONFIDENTIAL	22
HAZAR(	JOUS WA	STE STOR	AGE A	REA			(EFGRA		]YES (X) Nu	
FACILITY ID #	1 9	0	1   1	3 3		1 1 '	MAPA (neberas) 1		CRID# (votessi) U_ H	254
:				II.	CHEMICA	LINFORMA	TION			
CHEMICAL NAM		re Miner	AL C	DIL W/PCB"	 S>5 PPM<	SA DOM	286 TRADE S		TORA mile to manuscoma	276
COMMON NAME							<sup>ਲ</sup> ੇ   EH3*	7 -0-5×14	L'i Yes (X) No	20.6
CAS#					<u></u>		Tizai i ar EHS is	"Yes", all a	nounts zelow must be in lbs.	
FIRE CODE HAZ	ARD GLA	SSES Kinmpi	ele direc	nume by CLAN)						:nc
HAZARDOUS MAT TYPE (Ghack onn à		□ ≜ PLIR	r 🗀	Ib. MOXTURE (	X) o <b>Wa</b> ste	271   RSE	IDACTINE □Yes	(20) No.	212 CURES	273
PHYSICAL STATE (Chack one item on	—-— ⋈	_ ±80t	ло (x)	a HQUID	⊟ a.ews	SI4 LAR	GEST CONTAINES	55		215
SEC HAZARD CAT (Check all the apple		(X) H. FIR		6 REACTIVE		RERELEASE .	 ⊒ il. ACUTE HEAI	TH (X) ø. I	CHACHIC HEALTH	218
AVERAGE DAILY A	MOUNT	,	817   K	MAXIMUM COVEY	AMOUNT:	AAA AIS	MAL WASTE AND	TIA	25 T STATE WASTE CODE	220
55			<u>!</u>	110		i	300		( 251	
UNITS*	<b>y</b> ,	(X) a GALL	ONS	∏b. CUBC FEI *# C45. anko	ET	MOS □a *(#	NS	221	DAYS ON BITE:	23
STORAGE SONTAINER	a ASTVS	יד בעיניסאפי:	NE.					DI ASSIBAS	TIF 🔲 η RAII CAR	
		AT CAUCES	NK	□ F CAN		: I.BA	6 6 6	PLASTIC B	CTTLE (X) / CTHER BIN	
		ARIOF BRUTON		☐ y. CARBOY		∐ k 60		7STE BUY		
i	q 21FEF	CHUM		□ h. SRLO			UNDER □ p.	TANK WAS	HOW	23%
STORAGE PRESS	URC	OC ≥ AME	SIENT	□ h. ABX	OVE AMRIENT	L1 < 860	ON PARENT			224
STORAGE 1EMPER	ea i unage	(X) a. AM	D.CONT	□ h. AB	OVE AVRIENT	D ≏ RFC	OW AMBIENT	□ d. CRYS	GENC	225
%WT	HAZ	ZARDOUS	COM	PONENT (Fo	r mixture or	waste only)	EILS	<u> </u>	CAS∌	
1 72 	:					<i>771</i> 	∐ Yes ∐ No	234		209
	,					হৈন	□Yes □ Nc	20 .		χo
3 29	<u>.</u>					22-	□ Yes □ No	725		7.17
4 238	:					250	ПҮез П №	2500		241
5 :42						741	□ves □N0	:4		245
Michigan Market Control of the Contr	ponents are	; it with a light	nto: Bhan	11% by weight of ac	in cartinogenta. (	я и і <del>х Бу Моця</del> сл	cardropana: Adach:	acditional she	ess of responsibilities of the required	
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			I. FACILITY	/ INFORM.	NOITA					
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CHEMICAL LOCAT					2:1	CHEMICAL .	OCATION	CONFIDE	NTIAL	100
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HAZARDONS MATER			'	.l.						7:3
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PHYSICAL STATE (Check one demonly)	□ a SOUD	ру в терию	Dio GAS	214   1	ARG5ST	GONTAINER	65			215
FED HAZARD GATES (Chack at Ive(apply)	SORIES (X) & FIRE	LD 0 REACTAN	E ∐ o PRESSU	RE RELEASE	20,4	ACI.TE REALTH	I ⊒e. CH	RONIC HEA	NLTH	216
AVERAGE BALMAY	CUMT 257	MAXWOM DA	ily akköust	д ак	WNGAL V	VASTE AMOUNT	712	STATE	VASTE GODE	270
55		110			5	5			214	
oviTS' (C'esk preview only)		S [b cuekc		JUNDS   d.	TUNS		271 :	DAYS ON 35		272
STORAGE	ABOVE GROUND TAME		JONONMETALLIO		FIRER DI	PUM Tim CI		<u> </u>	RAIL CAR	
	UNDERSHOLMS TANK	T (CAN	(C-14(1-11))	□.				ire 2 ''.		
□ <b>:</b> .	DRIGGIGERI XANT.	Па САЯВС	)~	<b>=</b> ∗	BOX	] a □	STE BIK			
(2)	S166F DKOW	☐ F. SII O			CATINGE	R □27/	WK MAGEN	4		225
STORAGE PRESSUI	RE (X) a. AM9IE	.кі Пь	ABOVE OMBRENT	r 🗆 :	BE, OW A	манкт				274
STORAGE TEMPERA	TURE (X) a. AWBIE	91 Fib.	AUCVE AMBIENT	. U a I	RELOW A	Malest 🗇	d CRYOGI	ENIC		775
%WT	HAZARDOUS CO	OMPONENT	(For mixture of	waste only	)	EHS		(	CAS#	
1 80.00 226	Mineral Spirits (8	(0 90%)		2	257 🗀	Yes ∐ No	22R   647	42-88-7		225
2 10.00 710	†'   Ali <b>oha</b> tic Petro'ei	um Distillate	s (10-20%)	2	221 🗇	'es 🗆 No	212 870	052-41-3		223
g 234	†			2	275 🗆	Yes 🗆 Na	20C			247
4 228				7	:10 : □Y	es 🗆 No	740			241
5 (42				7	:43 <b>\_</b> Y	es □No	244			247
ij ejore jugarda a comp	ouwar am baraw as Buraja. j	than 1% by weigh	f ran-caremagean	c, cr 0.1% by wel	lahi ri caral	ncyanis, estach ac	oneral steri	H O'Vipper Ci	blancii cae uest	nl.ec
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CHEMICAL NA	ME		'					DE SECRET		T. Yes (X) Ni	208
CHEMICALLIA		ERAL SPIRI	T.C.				1104			refer to entire constitutions	-
COMMON NAM		ERAL SPIRE					707 EHS			☐ Yes (X) N	206
CAS#		2887	—						ali ampunis	to ow must be	
FIRE CODE HA	:		Longues de CHPA								210
HAZARDOUS MA	TERAL		IX) c. MOTURE		ASTE	219 N/C	JIGACTIVE [	TYes (X) No	Plz	GURIES	272
PHYSICA, STATI	F			- —		214 LAF	ROBERT COMPA	UNER 55			215
(Checa cos dem d		T r earin	OCP TIONS	Ľe G							216
FED HÅZAKD CA (Check at Thethol (Check at Thethol		(X) a. FIRE	∏ 6. REACTV	E ⊏ or	PRF53URF						
AVERAGE DAILY	TAIDQUENT	27.7	<b>REPORT OF A STATE OF </b>	jį v ≱loičiu	TM	218 AM	NUAL WASTE	TAUCMA	71P 6	TATE WAS IE DO	DF 55;
55			220				N/A			N/A	
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	🗆 E. (INDER	GROUND TANK GROUND TANK SIDE BUU DING ORUW	e. P;AS1   b. GAN   D. GARBU   c. SILD		FTALLIS D	□ • B:	5 r	∐m GIASS ]= PLASTQ :To TOTES []o TANKY	ROTTLE   R	□q KAILCAR □r OHE.P	ഥ
STORAGE PRES	SSURÉ	(X) a AMBIEI	NT 🗆 a.	VECAF V	ABIENT	Ll¢ 3E	FOM WABIEN	I			:24
STORAGE TEMP	EFA1URE	(X) H AMERE	NT D	ABOVÉ A	MOIENT	C' c 85	COM VMBIEN	1 000	BYDGFA:C		125
%WT	HA:	ZARDOUS CO	DMPONENT:	(For mix	lure of w	aste only)	F-	HS	<u> </u>	CAS #	
	275					יכי	Yes 3	] No 228	<u> </u>		299
2	220	-				731	□Yes □	] No. 230			233
3	234		_			725	yes i	] No 2%	<u> </u>		297
4	236					739	Yes 7	, Na 240	!		21-
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	omponente a	<u>o proje</u> m di Buege	than 1% by weigh	l Prior-car	nappene 6	н 0,1% ју швізл	н У сапоподелю	: #B1:h scd#mi	ial a wels 🥙	year capturing the	andrius;
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it EPCKA, Plea (Facilities repor	se Signi Rei sing Stiemis — I	e sals subject to d	PCF4 reports	ng ntrasti	ರಾವಸ ಸಾಗುಲ! 	sign eacti C	hemicsi Scs:	содног раде ——:	for each l	PCRA recoded	shemical.)
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	© DE LET	E (x) REV	IGE	, RE	PORTING	YEAR 2	3C4	2.0	Page 17 of 5	3G j
		L FA	CILITY INF	ORMAT	ION					
	E (Sanie as FACILITY N		Suairess Ast							₹:
	<u>GUNDO POWER, L</u>	<u>.c</u>			A1- I -			A		
ISHEMICAL 100						HEMICAL EFCRA )		ON CONFIDE □ YES (X)		200
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FACILITY ID#	1 8 2 0 1	3 <b>3 3</b> 3 0 1	0 1	1   '	VAI <b>?≄</b> (αγι •	lvcal)	276		·#!1	
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_		II. CH	EMICAL IN	FORMA						
CHEMICAL NAM					255 7	RADE SE		[] Ye		:36
-	MODIFIED AMIN		·		207	.::	M Subject	io EFCPA, reternal		208
COMMON NAME	ELIMIN-OX OXY	GEN SCAVENGE	:K		- ا	45-616. H2.	Was' all	<u> </u>	es (X) No emust be in los	- 1
CAS#					'	1 EL 2 19	F 85 . 84	a inclination desiries	1.105. DE 111 135	2.V
	'ARD DI ASSES (Complete)	Friedrical By COTA:					_	: -		213
HAZARDÓUS MAT TYPE (Check one)		(X) 5 MIXTURE Die	WASTE	2'1 RAD	KOAG : VE	. Г:Yes 	ζX; No	212 631	RIES	215
PHYSICAL STATE (Checklone list) or	<u>·                                    </u>	(x) L ulestin 🗀 e	GA5	214 DAS	SEST CO	514/95R	270			
FED HAZARD GM1 (Check all that appl		∐n REACTIVE (X) :	PRESSURE TO	ELEASE	(X) d. AC	OTE HEAD	он (х) е	GHRON'C HE	ALT:H	2:6
AVERAGE DAILY	TAUCHM	. MAXIMILM DAILY AMO	X.KT	244 VWK	EDAE WAS	ITE AMOUI	NT	219 STATE W	ASTE GDD5	200
220		300			N/A				N/A	
UNIT ST		E ☐b. COBIDITE:		. □ c TO	NS		50.	DAYS ON: 36:		222
(Check production STORAGE		•		<u> </u>					<del>_</del> ·	_
	] A ABOVE GROUND TANK I I. UNDERBROUND TANK	( E ⊭ PŁASTIC/NONI E3 ( CAN	METALLIC GRUM			× 늘김	SIASSINU PLASTICI	ине шаз Вотга Шт	OTHER	
_	a TARKINSIDE BUILDING	Ла САККОЧ		□ k 30	×		TOTE 6IN			
_	a STEEL DRUM	□ 55. <b>0</b>		⊒ I. GY	LINDER	E a T	(ANK (9Ac	GON		222
STORAGE PRESS	ILRE DI AMB'EN	TV03A e (X) 11	AURIENT		OW AMB	IFAC				774
								···		
STORAGE TEMPE	PATURE (X) & AMBIL	MI CIL ANOVO	AMERNT	] c 3E1	LOW WAR	FM.	( Ca)	CRENC	·	275
%vvT	HAZAROOUS CO	OMPONENT (For m	ixture or wast	ta only)		EHS			AS#	
1 2	<ul> <li>Carbohydrazide</li> </ul>			27,7	☐ Yes	6 [] No 	228	497-18-7 		:25
2 2	ν   Water			711	□Yee	□ No	230	7732-18-6		293
3 2				735	☐ Yes	 i ∐ No	236		<del>.</del>	237
4 ~			_	729	□Yes	□No	240			247
5 2			<del></del>	243	UYes.	∐No	214			 Eas
- <del>1204</del> herron	ļ Nesnares are promini al grantes	than 15, by walnut it non-	autoonio or 6	15. ha weight	f carelled	MINK, ETJE-	edd borae	hineta of paper se	or an in the reculo	<del></del>
idloubalias	<del></del> .			- <u>-</u>						746
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							L FA	CILITY	INFOR	MAT	ION					
BUSINESS.		Sama as JNOO I				O-ASC	eing Bu	siness As	<del>,</del>							- ,
CHEMICAL			OVE	<u>., , , , , , , , , , , , , , , , , , , </u>							201   S	HÉMICA	LUGGA	TION CONFIL	IEN DAL	765
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FACILITY IO	)#	1 . 9	0	1	3	3	a 4	0 0 1	t . 1		лаР <b>#</b> рад 1	r) (Mil		<sup>3</sup> डिश <b>ाक</b> (ब A	to-Mi	
						I!	. CHI	EMICAL	. INFO	RMA	TION					
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							(12.75	S PPM)					# Subject	atro EPCRA, min-	m Iradnusti	
рожмони	MAME	EPA P	ROTO	COL	MIX						• -	HS'			Yes (X)	No 208
CAS#											309 1	ΓEHS is:	Yes", a	l emounts helo	yy myst t	
FIRE CCOE	HAZAF	RD CLAS	5 <b>5</b> 5 /00	mpleje s	rvestvæd	by (7274)	<b>_</b>									2.3
HAZARDOUS 1YPE (Check			<u> </u>	JPF.	00) h M	IXTURF	<b>п</b>	WASTE	215	RAD	IOACTIVE	: □Yıek	(X) No	27 C	OURES	
PHYSICALIST (Check me lit			□ * 5	منده	_ b u	lamo	(X) e	GAS	714	LAR	SEST CO	NTAINER	282			215
FEO HAZARO (Chock all tha		<del>IDRIL</del> S	[] o. f	IRL	⊔ь. २	FACTIV <b>F</b>	(X) c.	egras:ir	F RELEAS	se (	X) a AGL	ITF HEAL	нο	e chronic k	EALTH	E.
AVERAGE DA	ÜLŸ A <b>M</b> O	PPUC		34)	MAXO	MÚM DAÍ	Ý AIA	ų, mi	%I#_	ANN	nat was	YE <b>AWO</b> U	NТ	219 ; STATE	EW4578	CODE 2%
554	ŀ					14(0	<u> </u>				N/A			<u> </u>	N/A	222
UNITS* : (Clejckjano ile	ers anh)		∏⊾GAU	TONE		CUECH C/15. am		□ c. POU		l d. 104	VES			<del>" Dayso</del> i   3	N S.TE: 955	
STYTHAGE CONTAINER	n.	ABCIVE (	GROUND	TANK		PLAST	CINOSA	AETALLIC I	свим П	li se	ISR CALL	at Dus.	GLASS I	857TLE <b>5</b>	⊈RN10	WH.
		C <b>J</b> ALDFRG				I. CAN				] <sub>#</sub> BAI				вэпть Г.		
	∐ r.	TANK INS	ine aut	SMG	ე ე.	. CARSO	Υ			1. BO	×	П в.	тотев	N .		
		AEU D	RUM		□ II.	.940				) L GY	LINDER	□ p.	TANK Y	MOON		229
STORAGE P	RESSUR	!E	□ w. /	AMBIE6	νT	00 L.	ABOVE	AMBIENT	Π.	e. BEL	CAV AMB	ЕМТ				.724
STORAGE TE	MPSRA	TURE		AMBEN	4T	П 6. А	BOVE	MBIENT	(A) 4	. BSLC	W AVER	ENF L	3 a. CR	YOSENIC		229
%\\\T	•	HAZA	\RDQU	is co	MPON	VENT (	For mi	ixture an	waste o	nly)	Ļ <u>-</u>	E!IS			CAS	 
1 0.32	226	Nifric	Oxide	(125	ppm)	)				श्म	[] Yes	∐No	эж:	10102-43	9	20
2 99.98	24	Nitrog	jen							231	∐Yes	□N□	352	7727-37-9	•	, and
3	234									13	☐ Yes	□ No	258			517
4	738	ŗ								230	□Yea	□ No	240			261
!s	ВU	<u> </u>								243	□¥es	iNo	742			5/6
	aik compa	iavne sine p	necestal.	grave:	lhar 15 b	ry weeg-1	C neci-cor	EnogenE, o	ii 6.5% hy w	etgist 1	cardinaça:	NIC THEO I	dd Danei	нисть ој рарс: с	aphu eng li	ik Skališkaa
ADC TICNAL	Linca	HYDOL	L FOTE!	) INFO	I AMRIC	ЮN										946
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DIV		BN			<b>974</b>		- 1	OTHER		0	atrict		CUP	A	I PA	

60+ rage per membel as build<u>es a se;</u>

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L	·		CILITY INFO	RMAT	ION			
	Same as FACILITY NA: UNDO POWER, I I		istraas As)					
CHEMICAL LOCAT	TON				OFFICIAL (EPCRA)		V CONFIDENTIA: YES (X) NO	一元
UNIT #3 KG	ORTH SIDE, STORAGE	AREA, WAREHOUS	F S MISC	<del></del> ;			GRIDA (spoorar	204
FACILITY ID#	1 9 3 6 1	3 3 6	0   0 1   1		AAP# options) 1		M e viêm (stava)	
<u> </u>	1:3.2 4	II. CH	EMICAL INFO	ORMA'	TION			
CHEMICAL NAME					276 - TRADE SE	GRET	TYPE (X) NO	276
<b>4</b> , 12,	NITROGEN				•		390AA. 16/6-10 Profitations	
COMMON NAME	NITROGEN COM	PRESSED GAS			TET : EHS*		☐ Yes (X) No	ZJE
CA5#	7727-37-9				<sup>rom</sup> i •ir∈HS is "i	(ea", at a⊤	aunts below must be in fas	
FIRE CODE HAZAS	RD GLASSES Komatom t	manned by Chiral						7.0
TOWARDOWS MATER TYPE (Check one for		DE.MIXTURE ☐ c.	WASTE H	.   EVID	ovotivē <u>⊡</u> ⊀æ i	(X) No	207 CURYES	2'5
PMYSKAALISYATE (Chock condemically)	 □ w.90000 7	 По. LKSANC (20 с.	SAS 21	< LAR	SEST CONTAINER	141255		205
FED HAZARD CATÉ Ó (Check all thai apply)			PRESSURE RULE/	⊸. vs∟ ut	or, Actuate Health	De CH	поме неасти	
AVERAGE DARY AAK	2016	MAXIMUM DAILY AMS	יוע דאשכ	a   Ann	UAL WASTE PAKKAN	(I 2	A STATE WASTE GODE	220
109000		141265			N/A		N/A	
	53	•				271	DAYS ON SITE:	222
UNITS* : <u>fCree#rotic #em o</u> tly) : sTOKPGE	LIB. GALLOPES	OO A. COURTO PEET # If SHB), autround are			····		365	
CONTAINER (X) #	APOVE GROUND TANK		METALLIC DRUM			GLASS 30		
	UNDERGROUND TANK	☐ f. CAN		LL j.fbr∨ LL k_BCi		TOTE BIN	OTTLE T. S. STHER	
:	TANKINSIDE BUILDING STEEL DRUM	∏iq. CARBOY ∏ih. SILO		<u>ωκαν</u> (201 εγ	_	TANK WAS	ON.	229
— -				<del></del>				
ISTOREMAS PRESSUR · · · · · · · · · · · · · · · · · · ·	RE 🔲 a. AMBEN	T 20 b. ANGWE	AMDIPAT [	]a Bēld	SWAMBIENT			728
STORAGE TEMPERA	TURE 🔲 a. AMODEN	T ∐ b. AFKWE	AMBIENT [	!« B≣L(	OW AMBIENT (7	) d. GRYC(	3EMIC	128
%\V\T	HAZARDOUS CO	MPONZNT (Form	etaswino erutro	only)	EHS		CAS#	
γ 206				<i>2</i> 7	□ Yes □ No	22h		229
2 730				211	Ďγ≃s □Nc	225		20.1
9 224				206	∐ Yes L No	228		207
4 225	]			279	□Yes □ No	24:		241
:, 252	<u> </u>			248	   Yes   ∏Yo	244		242
Figure haspurlate sample	e martie man present ut growter	Stabil Niby Weight Limble 2	ecinogenic, of 0.1% C	s exegra il	cercinogenes, attack at	ndte ikrath	had promoted the required	
<u></u>	 HIY GOLLEGYED INFO	DRMAT/ON						246
I) EPCRA, Please Si	er Here							
(Facilities reporting C	Olembels subject to HH	CHA reporting thresho	olits must sign ead	th Cham	isa' Description pag 	e for sech	EPORA reported charmoni	<u>)                                    </u>
		· · -լ		—–	·		<del></del> -	_
FFICIAL USE	ONLY	DATE RESE	IVED		REVI	FMHO KY		_
DIV	BN .	STA	OTHER	3	STREET	GUPA	PA	

(they happy the marketal bys building as modifi-

<u> </u>				(and ratio be marked per called a sequence
COV	DBELI	11	REPORTING YEAR 2004	200   Page 15 of 58
			Y INFORMATION	
	: (Same as FACILLIM) BUNDO POWER,	NAME of DRA – Doing Business A LLC	s)	3
TCHEMICĂL LOCĂ	TION			TION CONFIDENTIAL 702
WAREHO	USE, SOUTH MEST	SIDE & OTHER LOCATIONS		TYES (X) NO
FACILITY ID#	1 9 0 1	1 3 3 3 0 0 0 0 1	. I . <sup>1</sup> I MAPW (scores 20	GRID# (species) 784 A
	:///// -	II CHENDOS	L INFORMATION	(
CHEMICAL NAME	<del>-</del>	II. GREINGA	TRADE SECRET	∰ Yes (X) No 208
	NITROGEN/	OXYGEN MIXTURE (17%	O2) F/Jaban	m EPCRA, reterno los quargons
COMMON NAME	EPA PROTO	COL MIX	70   Citis* 20   France : ***********************************	☐ Yes (X) No X6
CASE	Of act seems		are   Totalis is Trest, at	amoums below most be in the.
:	RFI GLASSES (Sample	GET OF OTHER BY SUPAI	ī	
HAZARDOUS MATER TYPE (Obcok one lice		(X) b. MEX FORE ☐ E. WIASTE	21" RADIOACHNE Liyes (X) No	312 CUPIES
PHYSICAL STATE (Compared from entry)		) ∐k uaµub (X)o.GAB	274 LARGEST CONTAINER 260	29
FED HAZARD CATEO (Chooself that opply)		☐ b. REACTIVE (X) a. PRESSUR	— · · · · · · · · · · · · · · · · · · ·	CHRONIC HEALTH
AVERAGE DAILY AM	OÚNT 5	7 AVAINANA CAILY AMOUNT	27 AANTON WASTE (MOUNT)	219 STATE WASTE CODE 270
282		1410	j N/A	N/A
UMTS* (Check one demically)		NS (X1) S CLABIC FEET ∑ c, PX; * MEHS, amaning temper be in pa	KUNDS 🗖 4. 70MS	S DAYS ON SITE: 227 365
STORAGE			HILLIN	
	i Arione Ground tal Undergoroxano tan		=	OTTLE   LERAL CAR
	TANK INSIDE BUILDIN		□ 1. BOX □ 0. 3 O(1); BN	•
1 =	STEEL CRUM	□ F.84.0	Ø1. C'GINDER □p TANK W/	
STORAGE PRESSUR	RE JEANBI	ENT (X) IN ARK XVIL AMBRENT	<del></del> - · · · <del>_ ·</del>	724
STORAGE TUMPERA	TJRE ∏ <b>a 4¥</b> 28	EST   h AROVE AMBENT	(X) c. BELOW AMBIENT   14 OT	YOGENIC 286
%WT	MAZARDOUS C	CMPONENT (For moture or	waste only) EHS	CAS#
1 17,00 7%	Oxygen	-	727 Yes Q No 228	7782-44-7 zs
2 83.00 ≃	Nitrogen		731 🗀 Yes [] No 252	7727-37-9 ze
a 2%		. <u>.</u>	775   Yes   No 2%	тэ/ <sup>1</sup>
4 224			259 ∐Yes LIND 240	241
5 242			249 ☐Yes ☐No 21/	245
If there transmitted a compo- information.	acoupy and business of 81,690	er force 1% by weight a licensurane game, .	or 0.1% by weight it bard högenic, Attach add Burieral	icuts of passi depluring the required
	LLY COLLEGIED IN	PORMATION		. 249
	<del></del>		<del></del> <del></del>	
TEPGRAL Please St <i>iT addities reporting C</i>		PCRA repuring timesholds must p	sign 860h Chemical Description page for ear	in SPCRA reparted chemical.)
			·	
FFICIAL USE	ONLY	DATE RECEIVED	REVIEWED	ny

								L-manic but same of country
	DEC		REVISE		PORTING YE	AR 2004		<sup>258</sup> Page 16 of 56
			FACILITY IN	FORMAT	<u>NOI1</u>			
EL SEG	(Same as FACILITY I UNDO POWER,	NAME SIDBA Do LLC	ing Business As)					9
LOCAL FOCAL	TION						ATEON CONFID	
WAREHO	LISE SOUTHWEST	SIDE			(EPCI		□ Yēs (X)	NO
FACISTITY ID ♥	1 9 6 1	3 3	0 0 0 1	1 1	MAP* Inplicati 1	_	GRID# (A	204 (Care), 204
		11.	CHEMICAL IN	FORMA	TION			
CHEMICAL NAME		XYGEN MIXTU	JRE (1% <b>O</b> 2)		AN TRAD	E GEGRE?	Lift Later HYDRA Section	'es. (X) Nr. 206 = netrumone
COMMON NAME	EPA PROTOCA				207 EHS			res (X) No 256
CASA					208 TIFEH:	Sa Yes', :		w most be in its
FIRE CODE HAZA	RD CLASSES (Doller	buildings the by DLPA						717
HAZARDOUS MATCH TYPE (Check one ter	RIPL TronM) (Ja⊾PURE	(X) b. MIXTURE	☐ c. <b>19</b> 45र€	H- RAD	CACTIVE LI	7es (X) No	245 0	URŒS
РНҮЗКАЦ ЭТАЛЕ (Синий или йөлгөгү)		o [] ⊳ racmu	(X) n. GAS	244 LAPA	GLS C CONTAIN	MER 202		21%
TECHNIZARD SATES  (Steek of that apply)	CRES . FIRE	□ IN REACTIVE	(X) c. PRESSURE RI	ELEASE (	O):LACUT≿ H	ביים H	e. CI!RONIG EII	7:5 CALTH
AVERASE DAILY //Å	ÖUNT ?"	77 MAXIMUM CALL	(AMOUNT)	715   ANN	IIAI WASHEA	WOOTING	ETATE ; STA	WASTE CODE 7%
282		564			N/A			N/A
UNITS* (Check one tiem only)	GALICE	40 (A) b. CUSC FE	er i 기 c PCUNIX	S C a TO			PAYS ON 3	
STORAGE			<u>uni angsi be la manda.</u>					-•
	. AŠĆVE GROUND TAI UMDEKSKOUND JAN		NONMETALLIC DRUI	M ∏ 1.69 17.84	erozum 🗀	im GNASS In River	9011E   LL c 630014E   12 c	HALGAR
	TANK INSIDE BUILDIN			Lik BOX		,   u. TOTE!		. Office
	STEEL (ARUM	F/ h, siles		OKH, CY		l a. TANKI		229
STORAGE PRESSUR								
		CONT CONTRACT	TATE AMAZIENT	O - emi	IIII AIADENT		••	
STOR/GETEMPERA	<u></u>		COVE AMERIENT  COVE AMERIENT		OW AWDIENT		TYOSENIC	274.
STORAGE TEMPERA	TURE   × AMP	FNT 🗆 S. AB	CVE AMBIENT	(X) 6. BELO			TYOSENIC	
%\V <sup>T</sup>	TURE   × AMEN	FNT 🗆 S. AB		(X) 6. BELO	THE DAME WIC		TYOSENIC	276
%WT 1 1,00 225	TURE   × AMP	FNT 🗆 S. AB	CVE AMBIENT	(X) 6. BELO	DIM AMBIENT	 Si	7782-44-7	276
%\V <sup>T</sup>	TURE   × AMEN	FNT 🗆 S. AB	CVE AMBIENT	(%) c. BELC	DIN ANDENT	S	7782-44-7	2% CAS <b>t</b>
%WT 1 1,00 225	TURE   × AMP	FNT 🗆 S. AB	CVE AMBIENT	(X) 6. BELO te aniy)	CIII	S	7782-44-7	226 CAS <b>V</b>
%WVT 1 1,00 25 2 99 00 %	TURE   × AMP	FNT 🗆 S. AB	CVE AMBIENT	% c. Bette de aniy) 27	DYes Ch	S	7782-44-7	2% CAS <b>t</b> * 521 259
%/VVT 1 1,00 225 2 99 00 26 3 554 4 220 5 240	AZARDOUS C	FNT IIIS AB	IZVE AMBIENT OF MIXTURE OF WES	90 c. Bette de anity) 221 221 236 230	OW ANDENT  OYES ON  OYES ON  OYES ON	S	7782-44-7 7727-37-9	235 245 245 245
96VVT 1 1.00 225 2 99 00 265 3 554 4 225 5 246 Proces habitatious congen	TURE   × AMP	FNT IIIS AB	IZVE AMBIENT OF MIXTURE OF WES	90 c. Bette de anity) 221 221 236 230	OW ANDENT  OYES ON  OYES ON  OYES ON	S	7782-44-7 7727-37-9	235 245 245 245
9//VT 1 1.00 225 2 99 00 20 3 504 4 220 5 240 Procession from those congenitations.	AZARDOUS C	FNY III S AB	IZVE AMBIENT OF MIXTURE OF WES	90 c. Bette de anity) 221 221 236 230	OW ANDENT  OYES ON  OYES ON  OYES ON	S	7782-44-7 7727-37-9	235 245 245 245
9//VT 1 1.00 225 2 99 00 20 3 504 4 220 5 240 Procession from those congenitations.	AAZARDOUS C Oxygen Nitrogen	FNY III S AB	IZVE AMBIENT OF MIXTURE OF WES	90 c. Bette de anity) 221 221 236 230	OW ANDENT  OYES ON  OYES ON  OYES ON	S	7782-44-7 7727-37-9	275 CAS #  271 259 237 247 245 ploylog the required:
9//VT 1 1,00 225 2 99 00 265 3 504 4 229 5 249 Findin habititious conjunctions during the conjunctions and conjunctions are conjunctions and conjunctions and conjunctions and conjunctions are conjunctions and conjunctions and conjunctions and conjunctions are conjunctions and conjunctions and conjunctions are conjunctions and conjunctions and conjunctions are conjunctions and conjunctions and conjunctions are conjunctions and conjunctions are conjunctions and conjunctions and conjunctions are conjunctions and conjunctions and conjunctions are conjunctions and conjunctions are conjunctions and c	AZARDOUS C  Oxygen  Nitrogen  Mension presentatoress  LLY COLLECTED IN	FNY III S AB	IZVE AMBIENT OF MIXTURE OF WES	90 c. Bette de anity) 221 221 236 230	OW ANDENT  OYES ON  OYES ON  OYES ON	S	7782-44-7 7727-37-9	275 CAS #  271 259 237 247 245 ploylog the required:
9//VT 1 1,00 225 2 99 00 26 3 524 4 225 5 226 Price habiticus congenitions described. ADDITIONAL LOCA	AZARDOUS C  Oxygen  Nitrogen  Mension presentatoress  LLY COLLECTED IN	FNY ID S. AB COMPONENT (Fo	con continogénic, us 0.19	(%) c. BELC de aniy) 257 251 (396) 245 (39 Weight its	TILE  Yes Ch  Yes Ch  Yes Ch  Yes Ch  Yes Ch	S	7782-44-7 7727-37-9 shees of tase cal	226 CAS # 227 229 237 247 243 And Fig. Bru response? 743
9//VT 1 1,00 225 2 99 00 26 3 524 4 225 5 226 Price habiticus congenitions described. ADDITIONAL LOCA	AZARDOUS CONTROL Nitrogen  Nitrogen  LLY COLLECTED IN	FNY ID S. AB COMPONENT (Fo	con continogénic, us 0.19	(%) c. BELC de aniy) 257 251 (396) 245 (39 Weight its	TILE  Yes Ch  Yes Ch  Yes Ch  Yes Ch  Yes Ch	S	7782-44-7 7727-37-9 shees of tase cal	226 CAS # 227 229 237 247 243 And Fig. Bru response? 743
9//VT 1 1,00 225 2 99 00 26 3 524 4 225 5 226 Price habiticus congenitions described. ADDITIONAL LOCA	AZARDOUS CONTROL NATIONS OF THE CONTROL NATIO	FNY ID S. AB COMPONENT (Fo	co corrinogènic <u>, vi 0.15</u>	(%) c. BELC de aniy) 257 251 (396) 245 (39 Weight its	TIS  Yes ON  Yes ON  Yes ON  Yes ON  TYPES ON	S	7782-44-7 7727-37-9 shees of tase cal	226 CAS # 227 229 237 247 243 And Fig. Bru response? 743
9//VT  1 1,00 225  2 99 00 20  3 504  4 220  5 240  Pricial habit floors chaper information. ADDITIONAL LODGE  If HerCHA, Picase 5) (Facilities reporting C	AZARDOUS CONTROL NATIONS OF THE CONTROL NATIO	FNT IIIS AB COMPONENT (For	co corrinogènic <u>, vi 0.15</u>	(%) c. BELG Re anity) 221 296 240 35 Weight its	TIS  Yes ON  Yes ON  Yes ON  Yes ON  TYPES ON	S 299 An 252 An 264 An	7782-44-7 7727-37-9 shees of tase cal	226 CAS # 227 229 237 247 243 And Fig. Bru response? 743

SP FORM (12/1999 Version) THE CUPAS OF LOS ANGELES COUNTY

#### UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION fore pene per material per stateing in aver Page 17 of 56 (x) REVISE ∏Ajix∂ □DH F.F REPORTING YEAR 7004 I. FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME or DBA - Dorig Business As) EL SEGUNDO POWER, LLO 252 CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENTIAL (EPORA) ☐ YES (X) NO. WAREHOUSE, SCUTHWEST SIDE 724 MAP# (000274) 503 GRIU# (cpints); II. CHEMICAL INFORMATION 236 CHEMICAL NAME TRADE SECRE Yes (X) No NITROGENIOXYGEN MIXTURE (8.5% 02) Bisospecific ancilla, refur lo present con 200 ☐ Yes (XIND EIKS OXYGEN MIX COMMON NAME. "If EHS is "Yes", all amounts below must be in los. CA5# 216 FIRE CODE PAZARO CHASSES (Soppler Program by CIPA) HAZARDOUS MATERIAL CORRES PADICACTIVE ☐Yes (X) No 27.1 FIRE PURE OXID, MONDORE I €ELO MASTE TYPE (Check one Jamion)() 245 PHYSICAL STATE 214 LARGEST CONTAINER. Election Electronic (X) c CAS (Check one riem only) 246 FFORAZARD GATEGORILS TIA. LUCL TO DEACTIVE (X) O PRESSURE RELEASE (X) < ADUTE REALTH ☐ €, CHRONIC REALTH</p> /Check all that apply) STATE WASTE CODE AVERAGE DAILY AMOUN MAXIMUM DAILY AMOUNT 246 , ANNUAL WASTS AMOUNT 219 .1<u>41</u>0 N/A N/A 564 DAYS ON SHE 377 ☐ gALLONS (X) b GUBIO FFFT ☐ a POUNDS ☐ d TONG UNITE 365 Chack one item only: " MEHS, smount must be in po<u>unds.</u> 'ORAGE ∐ i F@FR DRIAV D j BAG m. GLASS BOTTES ☐ A ABOVE GROUND TANK 🔲 գ. ҚАҚ САЯ **^^NTAINER** THE PLASTIC/MONMETALD/CIDRUM. 🗓 и Рыдатю вотные 🗍 й отнык LE UNDERGROUND TANK □ I.CAN ETA BOX □ a. TO1E B N 🖺 a TANK INSIDE BUILDING 🗌 a GARBÓY (X) LICYLINDER □ p TANK WAGON □ h. \$100 221 □ a RELOW AMBIENT 224 SYORAGE PRESSURE a. AMBENT (X) E. ABOVE AMBIENT ☐ a CRYDGENIU 225 STORAGE TEMPERATURE □ a AMBENT ☐ b. ABCVE AMBIENT (X) at RELOW AMBIENT CAS# EHS HAZARDOUS COMPONENT (For mixture or waste only) 95VVT 🗔 Yes 🔟 Na 203 275 7782-44-7 1 8 50 227 Oxygen 7727 37-9 201 ∐Yes 🔲 Na 7:17 z 91 60 N:trogen 221 707 236 Yes 🗌 Na 7.7K 234 .2 241 \_Yes □No 7.TP 205 740 745 5 ☐Yes ☐No 244 Empre hazardous compositive are properly if greecenthan 1% by weight of non-caromogenic, or 0.1% by weight if caromogenic, affect additional shorts of paper capturing the required 246 AUDITIONAL LOCALLY COLLECTED INFORMATION IFEPCRA, Please Sign Here Hipplining recurring Chemicals subject to EPCRA reporting thresholds must sign nech Chamical Description page for each IEPCRA (sported thornical)

DATE RESERVED. REVIEWED BY FFICIAL USE ONLY PN STA OTHER DISTRICT CUPA ŲΓV

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∴⊒∧DD	□ne·F	TE (x: Rav	/ISE	REFORTING YEAR 2004	205 =age iù of	50
		l. F <i>i</i>	ACILITY INFOR	MATION	· · · · · · · · · · · · · · · · · · ·	• •
BUSINESS NAME	;Sante as FAC:LFTY N	NAME or DBA - Doing				1
	JNDO POWER, I	TC				
CHEMICAL LOCAT	NON				CATION CONFIDENT AL	5.7
HAZARDO	OUS WASTE AREA &	JOB LOCATION		(EPCRA)	YES (X) NC	
FACILITY ID≠	1 9	2   2   3   n	0 0 1 1	MAPE (unknown)	504 GRID# (spiara)	204
	<u>,                                    </u>	T. <b>33</b>	<u> </u>	<u>,, , 1.                         </u>	<u>i :l</u>	
		II. CH	IEMICAL INFOR	RMATION		
CHEMICAL NAME				205 TRADE SECRE	r _ ∏res (X) No	206
	OIL FILTERS			Heu	bjed to CPCRA invited to contract one	
SOMMON NAME	WASTE OIL FIL	TERS		<sup>207</sup>   EHS*	Yes (X) No	
CAS#	B002-05-9			<sup>205</sup>   "It HHS is "Yes"	, a: amounts below must be in it:	
FIRE COUR DAZA	RD CLASSES Attampe	на педратно си ((((70))				
HAZARDOUS MATER TYPU (Check one ten	·	☐6 MXTURE (X) c	WASTE 217	: ; RADKJACTIVE EY⇔ (X, X)	o 2:2 CURIES	:::1
PHYSICAL STATE				LARGEST CONTAINER 40		277.5
(Check one item only) TED FAZARU CATES		TA LIQUID LI 6	GAS 2'4	TARGEST LUNIAINER 40		٠.
(Check of that apply)		FIG. REACTIVE IT O	: PRESSURE MELEAS	BE DOWN ACUTE HEALTH (	a. S-RONIS HEALTH	
AVERACE DAILY AM	מע ואעכ	TWO SECURITIONS OF TAME	OOML 5.4	ANNUAL WASTE AMOUNT	718   STATE WASTE CODE	:2:
400		800		1500	352 721 DAYS ON SITE:	- 277
JM T5* _(Creece one item only)	Es CALLON	S Db. COBIC FEE1 1 (I EHS, amount m		: rons	355	
STORAGE CONTAINER TIE	ABOVE GROUND TAN ENDERGROUND TANK	<ul> <li>□ e PLASTICINON</li> <li>□ NUAV</li> </ul>	METALLIC DRUM   E	J FRSFRIDR.HW ☐ m GLAS JjBAG ☐ c PLAS	SSBUTTLS □ q NAN CAN STISBOTTLE □ r OTHER	ĺ
	TANK INSIDE BOILDING			סד פ □ בסד פ פר פ □ בסד פ	_	. !
_	. STEEL DROW	n Dalanbor ∏hSto	_	IL CYLINDER □ □ DANK		223
17, 0.						- · ¦
STORAGE PRESSUE	RE X(a. AVIBII	ENT E. ABOVE	AMBILM TO	HELOW AWRIENT		= :>4 !
AS EQMET EQUADORS	TURE (X) a. AMBI	ENT 🗍 b. ABOVL	AMBENI []:	BELOIN AMRIENT DI	CHYDGENID	
%/V/T	HAZARDOUSIC	OMPONENT (For m	ipcure or waste or	nly) EdS	CAS#	
- 224				:27 □ Yes □ No - 23	· :	259
2 275	l			25:   ∐Yes	1	23\$
3 234	•			236 ☐ Yas ⊡ No 33	<del></del> -	227
4 730				239 EYES E No. 28	- <u></u>	241
 5 242				54	<del>.</del>	245
Harvie Heardone como:	anems are present at great	ir than 1% by weight If non-c	arc nagen t, or 0.1% by		 	•0
ADDIT ON ALL LOCA	ULY COLLECTED IN	PORMADION				·· >/6
ADDITIONAL LOCA	ALT COLCEC. ECIAN	-01114 101				
It FPCRA, Please S						
(Facilities reasoning)	Chemice's shojecrito.	-PCHA reporting three	sholds must sign na	th Ghamutal Beschplian pagi	e for each   EPCRA reputed cher	nical.J
				-		,
FICIAL USE	ONLY	DATE REGE	VED	; REVIEW	EC 84	
			ì	<u>`</u>		!
SIV	9N	STA	OTHER	! DISTRICT CI	JPA PA	:

UP FORM (12/1999 Version) TRE CUPAS OF LOS ANGELES COUNTY

#### UNIFIED PROGRAM CONSOLIDATED FORM

	HAZARDOUS	- WIA I EKI.	ALS INVE	NIOK:	1 – r		CAL	hes/		ON pagamatang) ya <u>nta (2</u>	grot atear
iT.ADD	⊒⊅ELET	E (	x) REV SE		REF	PORTING	YEAR 2	204		250   Page 15 :	
			i. FACILIT		MAT	IÓN					
EL SEG:	Same as FACILITY N JNOO POWER, LL		Doing Ausiness	s As)							
CHEMICAL LOCAT							IEMIĆAI PCRA )			NE CENTIAL (X) NO	700
FACILITY ID #	1 9 <b>3 1</b> 1 1	3 2 3	0 0 0	1 1	T	uLAPA repte	ям )	72	GRID#	t (cubons!)	.374.
		<b>*   22</b> 2	·	. I .		1				<u> </u>	
	_	ii	I. CHEMICA	AL INFO	RMAT		A == ==	<del></del>		"	
CHEMICAL NAME	OXIDES OF NITE	SUGER 124	PPW)			235 TR	MDE SE			□ Yes (X) No reterno incurroscora	500
COMMON NAME	OXIDES OF NITE	<del></del>				23, <b>É</b> F	45*	- 530,51	erep.	[] Yes (X) No	238
CAS#								Yesi, al	н втпонгѣя	te aw must se ia	
	RD CLASSES (Complete	Produited by DLPA	)								21U
HAZARDOUS MATER TYPE (Check one item		(X) E. MIXTORL	∏ c.W4SFL	211	(AA)	O≥C⊓VE	ШҮөв	(X) No	27.2	CUAGS	
PHYSIGAL STATE (Shecklore nemically)		Гаца́∪ю	(A) c GAS	214	LARG	GEST CON	TAINER	292			7 IL
FFC HAZARD CATED (Chask all that eq:Xy)		☐ 6. RYACTIM	S OXI C PRESS	ORE RESEA	ug L	M) a ACC	TE HEA.	,T= L	e CHRON	IC HEALYH	216
AVESAGE DAILY AMS		MAXIPUM DAI				UAL MAST				IATE WASTE SODE	210
1000		1410	0			N/A				N/A	·-
Ukir 3* (Check one fem only)	□» GAL:ONS	(X) 6 Spaid i	E		८ राजा				P' DAY:	S ON SITE. 365	225 
STORAGE	ABOVE CROUND TANK	 □e PLASTI	IGMONMESALLI:	орком Г	י דו רונ	BER DRUM				a. RAIL GAR	
_ h.	JA DERGROUND TANK	☐ 1 CAN			] [. [[5]	G	П II.			∐ и отняя	
	TANK INSIDE BUILENC. STEEL BRUM		21	_	] k 200 ( i. Cyi	X LNOER		TIDTE 3			773
STONAGE PRESSUR						OW AMBIE					270
STORAGE PRESSUR			ABOVE AMBIENT			OW AMBIE		———. Пи се	 YOGENIS		275
		. —						- 4	ar yayı: Milli		
1W% -	HAZARDOUS CO	<u>·</u>	For mixture c	r waste o		i _	CHS	· – į		CAS#	
1 0.01 225	Nitrio Acid (34 pp	279) 			207		□N¢	228	10102-	43-9 	— Atia
y <b>99.99</b> ≈	Nitrogen				221 	∏Yea	□ Nr	232	7727-3	7-8 	223
3 294	•				225	∵gres	I J. No	220			227
4 254	·— ·				2735	□Yes	13 Na	243			241
5 247					24)	∐Yes		244			245
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		<ol> <li>FACILITY INF</li> </ol>	ORMATIO	N .		
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	<u>ioo P</u> ower, LLC	—	20	CINEMICAL LOCA	may chijene	NT AL - 707
CHEMICAL LOCATIO			<i>,</i> ,,	(EPCRA)	YES (X)	41.40
WAREHOUS	E, SOUTHWEST SIDE	291 : I : I	T T MAG		3   GR!D# (para	
FACILITY IC# 1	9 0 0 1 3	3 3 0 0 0 1	1   '""	1	) A	-,
<u></u>	: 1246	II. CHEMICAL IN	EODMATIC	<u> </u>	!	·
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OTEMICAL NAME	OXIDES OF NITRO	CEN /50 CA DOM)		1 ' '		- ,,,, ,,
DOMMON NAME	OXIDES OF NITRO		201			ea (X) No 20H
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	CLASSES (Complete trequired	IM EU-AC	•••			210
HAZARDOUS MATERIA		•	zni kabi0á	CTVF LIYAK (XX No. No.	217 CJ	21a   RIES
TYPE (Check and item or		RTMRE   a WASTE		CLO CIRK IN NO		
PHYSICAL STATE			214 LARGES	STICONTAINER 282		215
(Check one item only)		GUID (X) c. BAS				
FED HAZARG CATEGOS (Gheck all the appry)	RES ∐a F#RF Ü≧ R	FACTIVE (X) a FRESSURE R	ELEASE (X) (	I. AQUTE HEALTH 🔾	e CHRON€ HEA	
:   AVERAGE DAILY AMOU	17 TA	MUU. DAILY AMOUNT	"215   ANNUSE	WASTE AMOUNT	219   S7A1E W	ASTE CODE 220
800		1128		N/A		N/A
	_			:	<sup>221</sup>   ĎAYS ON :	SITE :22
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	TEELORUM 🗆 Þ	SILO	(X) I. CYLIN	<u>5FR □ □ ρ TANK)</u>	MAGDN	
SICRAGE PRESSURE	□ a AMUICNT	(x) I: ABOVE AMBIEKT	∏. c gulûw	ANBIENT		224
SIGNAGE TEMPERATU	RE □ a AMUICMT	LI NI ARCVE AMBIENT	(X) t BELOW	AMBIENT DIE C	RYCGENG	225
<b>-</b> -	·					:AS #
50V1 :	HAZARDOUS COMPOI	NENT (For mixture or was	ste only;	EHS	<u> </u>	
4 0.01 25 1	Nitrio Oxide (59 50 ppr	πį	227	]Yes ∏ No. 229	10102-43-9	225
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7 99.99 236 I	Nitrogen		Z1 [	]Yea [ No 212	7727-37-9	503
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2 234			235	TYes ☐ No 275		207
A 720			225	JYes ∐ No ≫n	T	м.
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ADD TROUBLE COCALL	Y COLLECTED INFORMA	HON				
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BEPCRA, Please Sign (Pacilities reporting Cf)	r mere Veralgalis subject to PPCHA :	reporting taresholds must st	gn each Chom	(cei Onscaption page	Jor each EPCRA	(веропод акотіса).
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GGA□	L]DELET.	E (x) REVI	SE	REP(	ORTIN	S YEAR 2	0014	200	Page 21 of 3	56
		l. FA	CILITY IN	FORMATI	ON					
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	<u>UNDO POWER, II</u>	С			.				<del></del>	257
CHEMICAL LOCAT						CHEMICAL EPCRA :		ON CÓNFÍÐEI ∃ YEŞ (X)		
WAREHO	USE, SOUTHWEST SI	DÉ .			_   '		773	15HIDD (spice		222
FACILITY :D#	1,9 🌃 0 1	3 3 3 0 0	0 1	1 ' "	AP# 14	p>96311	7.0	I	·a,	
l	200		<u> </u>			' <u> </u>		<u> </u>	— . —	-
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CHEMICAL NAME					26 j j	TRADE SE			s (X) No	100
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HAZARDOUS MATE		raquae: ty com		:						712
TYPE (Check one nen		(X) B. MIXTURE   Dis.	WASTE.	ar RADIO	CACTV	E Tes	(X) No	277 CUI	7'FS 	375
FRYSICAL STATE	☐ a SOLID	⊟a ucub iku s	GAS	SI4   LARG	яят ас	REMIATES	282			
(Check one (lent only) FED RAZARO CA1E3										- <u>.</u>
(Cheox at that apply)	L'A FSF	☐ b. REACTIVE (X) c	PRESSURES	HELEASE S	x) d. Ai	CUTE HEAL	TII 🗆 a.	CHRONIC HEA	NETH (	
AVERAGE DALLY AM	(אטס) 257	MAXIMIN DALLY AND	UNI	SIS AMM	IAI WA	STE AMOU	NT	219 STATE W	VASTE CODE	221
1030		1410		<u>    i                                </u>	N/A	<u>.                                    </u>			N/A	
UNITS? (Check one demony)		(X) a. CUGIC FEET * 0 CHS, amount pro			s			: DAYS ON : [36:		222
STORAGE CONTAINER □ a	ABOVE SKOUND TANK	☐ a. PLASTIC/NOYM	ETAILIC DRU	e □ . FIE	FR DAU	IM □ г	GLASS 60	МЕ Шая	MILICAR	
	UNDERSHOUND (ANK	CL COAR		□ j⊌AG		□. n		011.5	OTHER	
ے د	TAINK INSIDE BUILDING	☐ g CARBOY		□ • 60×		_	TO LE SIN			
_ =	. STEEL DRUM			(A) I (A)	NDFH	L.	105 K 9654	<u></u> .		322
STORAGE PRESSU	RE ⊏a AMB€	NT XYL ABOVE	T? SIBMA	∏ c. VEIX	OW AW	RIFAT		_		774
STORAGE TEMPERA	TURE THE AMBO	47 ∐h ABCVE#	TABLEMA	(X) c 8F(	IMA WC	GIENT (	□ d. CRY	CGLAIC		775
%WT	i HAZARDOUS C	OMPONENT (For mi	xture or wa	ste nnly)		EHS		C	CAS#	
4 0.01 026	Nitric Oxide (129	ppm:)		22,	F) Yo	s. L No	726	U102-43-9		2:9
	h denom			721	LIYe	 s	202	. <u></u> 7727-37-9		723
: 99 D9 710	Nitrogen				٠.٠					
2 724				215	□ Ye	s 🗀 No	235			257
4 236	-		•	705	∐Ye	s [NG	740			241
5 247	<u> </u>			247	□Ye	 s	244	-		245
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adornal vit.	ALLY COLLECTED INF									946
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if EPCRA, Please 5 (Facilities reporting	organicals subject to A	HCRA reporting trass	hoids must s	go sato Soc	mical	Description	граде /с	гөрой <i>Н</i> НОРА	t reported oher	mical)
FFICIAL USE	ONLY	DATE RECH	VED_			REV	iewab (	SY		
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ПАЭЛ ПDELETE (x) REVISE REPORTING YEAR 2004 200 Рада 22	d616
I. FACILITY INFORMATION	
BUSINESS NAME (Same as FACILITY NAME or ORA - Coing Rus ness As)  - EL SEGUNDO POWER LLC	
CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL	202
WAREHOUSE, SOUTH SIDE, MAINTENANCE SHOP & JOB LOCATION (EPGRA) YES IX; NO	
FACILITY ID # 1 9 0 1 3 3 0 0 0 1 1 1 MAF# Implement 228 GRID# (rpdsmat)	201
A SUSSICIONATION	<del></del>
II. CHEMICAL INFORMATION  CHEMICAL NAME  20 1 TRADE SECRET TO VEN. (XUND	
CHEMICAL NAME  200 TRADE SECRET Yes (X) No  OXYGEN  1 Subject to PROVE size to consument.	"
COMMON NAME COMPRESSED OXYGEN GAS 227 EPS* TYPE (X) No	256
GASo 7782-44-7 229   "If EliS is "Yes", all amounts below must be in	
FIRE CODE HAZARD DI ASSES (Consere Emguror ty SUPA)	210
HAZAROGUS MATERIAL THE (Check predem phy) (XIS FURE THE MATURE THE WASTE 211 BACHOACTIVE THES (XIND 212 CURIES	273
PRYSIGAL STATC  (Check one (ish only)	918'
FED HAZARD CATLGORIES	216
(Check an Hallapphy) (X) a. (1941 F.) E. RLAGFIVE (X) d. PRESSURE RELEASE (X) d. ACUTE FEALTH FD € GHADNIC HEALTH	
AVERAGE SAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE COD	L 220
1128 3366 N/A N/A N/A N/A NAYS ON SITE:	<u></u> -İ
UNITS: De CALLONS (QUE CHAIC FFFT Die POLINDS Die TONS 365  *(Chippe projeten only) *(FSFS, Anagant musiche imponoritation)  **TOPOGE*	
CONTAINSHIT III BLABOVE GROUND TAAK III TIIL PURSTICANONMETALLIC DRUVIIII TII FI PER URUMIII III TIII GLASS PÕTELE III TII ÇIRAL CARI	
□ 5. UNDERGROUND TAYK □ 1. GAN □ 1. BAG □ 7. PLASHU BODILL □ 7. CHALA □ 6. TANKINSIDE BUILDING □ 3. CARBOY □ 8. CAC □ 10. CACE BIY	.
☐ 4. STEEL DRUM ☐ B. SLO (X) I. CYLINDER ☐ 6. TANK WAGON	:22
STORAGE PRESSURE DI AMBIEXT (X) E. ABOVE AMBIENT DI CI BELDWI AMBIENI	774
STORAGE TEMPERATURE   2 AVBIENT   15. ABOVE AMBIENT   1X; IL BELOW AVBIENT   13 CRYOSENG	129.
%WT HAZARDOUS COMPONENT (For musture an westerphly) EHS CAS #	
1 226 77 Tes No 274	779
2 77.0 75.1 Yes No 73.2	223
3 724 735 Yes No 236	22)
	241
i	
5 141 Yes No 244	245
ll mare hagerdous companents are present at greateranan n'é by weight if nouve, (cine gen); or (1% by weight if corpressents, about additional greets in leger outstuding the re- triumation	Carlina 3
ADDITIONAL LOCALLY COLLECTED INFORMATION	246
1/ 3 0 f 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0	
ll EPCRA. Plasc Sign Hord (Fectibes reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported of 	reinvoar)
FICIAL USE ONLY DATE RECEIVED REVIEWED BY	I

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COVMON NAI										301 EI	ris-			<sup>V</sup> es (X) <b>N</b> o	790
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HAZAROCUS M TYPE (Check on		(X) 2	PURE	□ > M	gxtere	Пс	WASIL		:·· =AD	ICACTIVE	□Yes	30%0	712 0	URILS	
PHYSICAL STAT (Chack one dem			ı. SCLIC	(X) b	Jauro -	— Г. а.	GAS		J'4 ,AR	GEST COM	STAINER	<b>د</b> 5			215
FEO MAZARITICA (Check et the las		(20) 4	L F.RE	□ b. 5	REACTIVE	E 🗆 r.	PRESSU	ral Bl	LLASE (	(X) e. 40 л	TE SEAL	тн □п.	CHRONIC HE	 ALTH	256
AVE/MGE OAL	TAMOUNT		777	TWAN	MUM DAI	LY AMO	UNT		2-8 ° ANN	UAL WĀS	TE AMOU	N-	719 STATE	WASTE CODE	220
150				İ	300				:	N/A				N/A	
UNTTS* (Check one 4em	h4	(A) a	GALLON	s Eu	QUAIC I	FFF <sup>-</sup>	^ a =(	DUNDS	5 <b>(1.</b> 73	NS		:3.	DAYS ON 3	15 T⊦: 55	772
STORAGE		æ ppa::	74316						v Ein	BED DOU		CLASS O	 	 a IVAL CAR	
CONTAINER	⊟ a ABOA ⊟ b UNC6				CAN	IWIACNI	#EINLU	2070	, P!W		"" ∐"	PLASTIC	BOTT#   1		
	□ a TANK				у съяво	N.			17 s. BO		_	TOTE BIN			
	(X) & STE	F ORTHA		🗀	r. SI.O				<u> </u>	INCER		TANKINA	COM	<del></del> -	223
STOPAGE PRE	SSURE	(20)	a AMBIE	ΝT	Da.	AROVE :	AMBIENT		] c 6E.	Cool AMBil	ENT 				:24
STOPAGE FEM!	PERATURE	(%)	e ALIBIE	NT	□ b :	EVOSA	AMBIENT	r	□ a EFI	IEMA WO.	ENT	∐ n 59Y	CGENIC		725
%WT	. 11	AZARD	DUS C	ОМРО	NENT (	Fat m	xture o	r was	to only) —-		EHS			CA5#	_
1	278								227	∏ Yes	FI Na	220			275
2	230								23;	∐Yes	∐ No	322			287
3	234								299	□¥es	_ Na	220.	-		297
4	230								239	Yes	∐Na	240			76.
<u> </u>	545								26>	LYes	⊒No	744			245
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	I TOELETE	(x) REVISE			024		3 1 3 age 24 ar	
		I. FACILITY IN		<u> </u>		- —		
ÜŞİNEŞŞ NAME (Şame as FA EL SEGUNDO PÖ!		DUA – Doing Business As	9					
HEMICAL LOCATION	YVER, LEG		· - <u>-</u>	OT GREW CA	LIDGATI	ON CON	IFIDENTIAL.	20
WAREHOUSE, SOUTH	DATE OF SIDE			(EFCRA)			(X) NO	
1554		<b>S</b>	1 1 1 1 144	 AP <b>4</b> (column)	202	GRIDA	(optional)	. 25
ACILITY ID # ; 1 9	0 1 3	3 0 0 0 1	1    <u> </u>	1			3	
		II. CHEMICAL I				_	_	
HEMICAL NAME				≈€   TRADE 58	CRET		.∏Yes (X)No	2.
		ATE (DIESEL)			1 Subjects	PEDCSY -	<del></del>	λ.
CMMON NAME DIESEL F				27 EHS*			Yes (X) No	
A5# 8002-05-5				(3) All EHS is	'Yea', gill	amo <u>unis</u>	ae.aw masi be in <b>k</b>	)5. <u>2</u> .
RE CODE HAZARD CLASSE	5 (Consider Location	Hy CLPAI	<del></del>					21
AZARDOUS MATERIAL (2E (Check one illn= only) (X)	a. PURL	CORE DOMASTE	211 3,4016	WCYIVE (Tres	(X) No	7.2	CUR ES	— 3 <del>3</del>
MS.CAL STATE heck one (isos only)	a. SOUD (X) 6 LK	.UUp LI⊝GAS	214 ARGE	EST CONTAINER	55			
O HAZARU CATEOCRIFS						OUBCERS	UESI TH	2
	a. FIRG   6. HL	AUTAL         PRESSURE						
/EIRAGE DAILY AMOUNT	217 MAX 8	TRUCMA YU AU MUN	ZIM : ANNU	AL WASTL ANKIU	MY.	?" ; ST	ATÉWASIC COOC	7
250		550	:	N/A			N/A	
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CRAGE PINTAINEN I DE ABOVE GRO II S. UNOSRORO II S. TANKINSIDE	UND TANK	- PLASTICINONMETARINO DI 1 GAN 1 GARBOY	ROM □ LEGE BAG □ ROX	El r.	CLASS B PLASTIC TOTE BIN	BOTTLE	□ q ñali CaR □ r OHHEA	
Me STEER DRU		. SILC	□ I CY J	NOLR     Do	TANKINA	SON		2
	) a AMBENT	☐ E. ABOVE AMBENT	☐ a RFI.O	W AMBLENT				~
CRASE TEMPERATURE IX	ga AMPENT	☐ 6. ABOVE AMBIERY	n_asuc	WIAMBIENT	Elu GRY	OCENID		~
WYT PAZARI	DOUS COMPO	NENT (For mixture or w	aste only) 🕌	FIIS			CA\$#	
59e			207 (	☐ Yea ☐ No	2031 <sup>1</sup>			۷
233			231	□Yes □ No	232			2
234		_	2.11.	☐ Yes ☐ No	256		<u>-</u>	2
299			508	□Yes ∐ No	c40			7
242			241	∏Yes ∏No	240		<del></del> <del>-</del>	2
Mara hasaideus components sis eras	era of Granter stan 1%	by weight dinon-cardinogenic, o	on the by weight if	sersinogenic, ettest	lanothbac r	ehe415 e/ þ	abw.ca <u>ajnuaB par sedn</u>	nd
DDITIONAL LOCALLY COLLE	COTED INFORMA	HICH						
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EPÇAA, Please Sign freie actifies rapoding Chamicais s ———————————————————————————————————	abject to EPCRA	reporting thresholds must	sign each ONe	uplast Descriptio	а рада fa	rnuch E	PCRA reported cha	POTO
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		<u>E</u> í	x) REVISE		REE	ORTING	YEAR 2	OC4		:W Page Z5 (	)1 55
			I. FACILIT	Y INFOR	MAT	ION					
	(Came as FACILITY N UNDO POWER, H		Daing Busines	a As;							
CHEMICAL LUCA	HON .	-					(EMIGA) PGRA ()		ON CONF YES	IDENTÆL (X) NO	207
VARICIOS	LOCATIONS			1 7 7		AADA saas		703	GBL# 6		254
FACILITY ID#	1 9 0 1	3 2 3	0 0	1   1		MAP# japis	:50,		Ι.	(	
		ı	J. CHEMICA	AL INFO	RMAT	TION					
CHEMICAL NAME		CTU LATER	(005105)			- π·	ĀDE SE		_	Yes (X) No	706
	PETROLEUM DI	SILLAIES	(GREASE)		· ·	207   EL		1 5.5 <b>9</b> 0.111		organiska et dans Language et dans dans	706
COMMON NAME CASE	GREASE 8002-05-9					; L	. <b>5.</b> E∺S≀a	Yes', θ!! s		Yes (X) No elow must be m	ibs.
FIRE CODE NAZA	RD CLASSES (desper	ilinequived by CCPA	4								7 10
HAZARDOUS MATER TYPE (Check one lier		⊒ь жолие	_ = WASTE	211	RADI	DACI ML	∏Yes	(N) No	212	CURIFS	715
PHYSICAL STATE (Crack or a ison only)	(X) ± 80'.ID	בי רוםם	De SAS	258	ARG	SEST CON	IAMER	35			215
TEU HAZARD CATE( (Check aliffer epoly)	CORES	 □ > RFACTIVI		LRE RELEA	SE :	— ⊒ d. ACU1	L DLAL	ne -		HEALTI1	215
AVERAGE RAILY AM	MINT 20	MAXIVEM DA	ILY AMOUST	7.5	ANN	UAL YVAST	E XVIDU	NT.	218 STA1	FERODATEANN BE	270
1000		150	Q		١.	N/A				N/A	<u> </u>
LINITS* (Check one flom strly)		TELUUBGI THENS an	CER IX) c. fy nount must be in p		el TON	12		77-	DAYS (	0N SITE: 365	22:
	ABOVE GROUND TANK UNDLAGROUND TANK	⊞ * CAN	IIC/WONMETALL	İ	<u> </u>	VG	□ г.		na.iff 3	∐ e PABICAR □ i OTHEA	
_	- 174X INSIDE BUILDING I. SYCCL DRUM	[]µ CAA3: ∐n 3H0	(17	_	]kac 1∟svi	LINDER	_	HOTERN DANKWAC			223
STORAGE PRESSU			AROVE AMB EN			CVV AMBIE					224
STORAGE TEMPERA			ABCVE AMBIEN			DW AME L	<b></b> - ·	⊟u CRY:	OGENIC		225
%WT	WAZARDOUS DO		(For mixture o	rwaste o	nly)	i	FHS	-		CAS#	
1 726	. <u>!</u> .		·		227	_ Yes		776			728
2 :30	i—				711	□Yes	 □ No	232			273
3 294					715	'□Yes	⊒No	238			22/
4 258	<u> </u>				721	 □Yes	∏ No	240			543
S 243					341	. □Yes	 D.No	gua :			 745
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CHEMICAL N	IAME										235 7	RACH SI	ECRET		Yes	(X) No	206
	. <b></b> .				LLATES								1579(40	ID CFCRA	refre ka eur		
COMMON NA	AME	WASTE	MINER	AL Q	IL W/PC	B'\$:	5PPI	VI<51	PPN	<u> </u>	_	H\$*				ρζιΝα	236
CAS#		2 01 480										Ir AHS IS	Yes 83	amounts	below 1	nust be in the	5. 210
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HAZARDDUS I TYPE (Chack o		_	j∠ PURE	<b>□</b> b:	MIXTL RE	(X) c.	WAST	Ξ	31 ;	! RADI	CACTIVE	E Lives	(X) No	212	CURIE	ES	
PHYSICAL STA			<b>-</b>			_				LVRK	SESTICO	HTAINER	55				275
Check and den FED HAZARD (			] a. SOLIC	) (X; E.	100.0	1 0	. GAS			!						<u> </u>	276
(Check as back		ann a (	X) ± FIRE	<b>□</b> b.	REACTIVE	. □ :	. PRLS	SERL	RULLA	SL I	X) J ACI	UTE HFAI	T4 (X) c	SHRON	IS HEAL	TH.	
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STORAGE ≅ONTAINER		ABOVE OR	CUNC 766		e_P6A91			•			REG DEI		GLASS	OTTLE	 	A L CAR	
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GTORAGE TEN	#PERAT	URE (	(X) a. AMBI	FNT	□ h .	ABCVE	E AMBIE	КT	П	c AFO	OW AND	IENT	∐a CBY	YOGENIG			735
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1 1.00	228	Polychi	orinated	Bipho	enyls					201	☐ Ye	E □ No	225				279
z <b>9</b> .90	236	Petrole	um Hydr	osart	ocns					331	□Yes	□ No	282	8002-0	5-9		223
3	214									72%	LTYe	a <b>N</b> fla	796			_	227
4	219									259	∐≚es	∐Ns	249				241
5	247									243	∐'Yes	_	744				045
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		UNIFIED PROGRAM C										
HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION												
ADib	[* JDELET	E D) REVISE	REF	PORTING YEAR	2034		Page 27 of b					
		I. FACILITY	NEORMAT	ION				· ·				
		AME or DBA – Doing Business A	s)					2.				
FLISEGI CHEMISAL LOCAT	UNDO POWER <u>. LL</u>	.C		221 CHEMIC	AL OCA	TION CONFIDEN	TIAIT	2::				
		4 AND OTHER LOCATIONS		(HEGRA		TION CONTIDEN						
FACILITY ID≠	1 9 0 0 1	3 3 0 0 0 1	14 : !!	MAP# topto:di	71	O GRO#faste- <b>a</b>	;	214				
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		(I. CHEMICAL	INFORMA	_								
CHEMICAL NAME				200 Г. (КДОН 8		_	(X) Na	206				
COMMON NAME		ISTILLATES (MINERAL O I/PCB'S>2 PPM<50 PPM	비니	207 E-187	P 51 hpt	/105F(6A, 1997 pina 	In:= ons s (X) Na	2:6				
CAS#	MINTERNE OIL P	M OU OF A FEIR SOU FEW			i Yesi a	l amounts below r	<del></del>					
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HAZARDOUS MATES		ALL 1007 100 111 111 000	201 RAD	IOACTIVE THE	50 No	2/E CURI	≣ä	Ž 12				
TYPE (Check ore item	ione; ∐a F.IH.F	(X) 6 MIXTURE LL C WASTE						215				
PHY5 <b>¢ÇAL</b> ŞTATĘ √Cleeck sine (t-m on ty)	<u> </u>	og h : QUIC ⊟ o SAS	214 LAN	GEST CONTAINER	100	00						
ABO HAZARU CATEG (Check alithal apply)		□ D REACTIVE □ a PRESSURE	RELFASE :	Xja AC∵TFHFA	ITE OG	a IDERONIO ISEAL	.TI·I	215				
AVERAGE DAILY AM	OURT 217	MAXMUM DAILY AMOUNT	215   ASS	DAC IVASTE AMO	LINT	28 STATE WA	&TE CODE	220				
41400		41400		N/A		j N.	/A					
UNITS*	CO a GALLENS	, :	 NDS (T.4.TD		:	"   DAYS ON S	TC.					
(Chees entialementy) STORAGE	64	II FHS amount must be in peur				365						
MONTARER 🗍 a	AUCYE GROUND TANK				GIASSI	BOTTLE □ C.RA CBOTTLE (X) \ D'						
-	UNDERGROUND TANK  1A4K INSIDE BUILDING	□ LOM Jilo CARBOY	□;64 □∢ <b>8</b> 0	. =	TOTER		FORMERS					
_	SFEEL DRUM	□ h. \$10	□1 co		TANK W			771				
STORVICE PRESSUR	RE □ a. AMBIEN	II (X) B. ABOVE AMPIENT	in ∈ 90:	OW ADRIENT	-			224				
STORAGE TEMPERA	TURE (TE AMBER	41 (X) > ABOVE AMBILIA	□ = K∩	OW AME THE	∐a br	TYOGEN C		275				
%W*	HAZARDOUS CO	MPGNENT (For resklure or w	aste only)	E-IS		C.4	\S#					
1 G.10 - 245	Polychlorinated 3	inbenyls	227	—— No ∭ No	256			:79				
	<u> </u>	<del></del>										
2 99.00 🚥	<sup>†</sup> ≏etroleum Hydro !	carpons	531	: IYes   : No	232	9002-05-9		,=				
3 :34			236	☐ Yes ☐ No	23%			73Y				
4 238			235	∐Yes ∐ Na	245		<del></del> -	241				
5 242			347	:	244			245				
	iusues are burance as Breste.	than 1% by walget If non-carcinogenic, o	r C.1% by weight	if carcinegone, alter	h addrion	al sheets of pages capts	uilny tho 140 44	4				
<u>Importation</u> ADDITIONAL LOCA	CLY COLLECTED INFO	ORMATION						245				

If HECRA, Please Sign Hare

(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reporting thresholds

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	(Same as FACILITY NAM		ng Bu	siness As)	I								3
CHEMICAL LOCAT	<u>UNDO</u> POWER, LI ( CON	. –					201 L C	STEMBOA	1004	TION I	CONFIDE	MTIAL	202
	GROUND FLOOR							PCRA)			55 (X)		
		553 I	1	ı —		: I M	<u>ДР# (: p</u>	der 4°	75		Riù# (aster		774
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		i a	CHE	MICAL II	NEOR	TAM	JON						
CHEMICAL NAME								RADE 58	CRET		ПУе	a (X) No	206
	PETROLEUM DIST	RELATE & UF	BE O	ul i						n se Erb	na. B∧,maharbui		
COMMON NAME	LUBRICATING OIL			,_,			277   2	H5"				86 (X) No	<u></u>
CAS#	8002-05-9								'Y68', a'	3 amod		must be in I	bs.
FIRE CODE HAZAI	RD CLASSES (Complete 1)	eculied by CJPA)					'						5.0
MAZARDOUS MATER TYPE (Check pholler	UAL		e WA	GTE	7'1	RADO	DACTOR	∐Yes	(X) No	,	:2 CJ:	res	\$.3
PHYSICAL STATE (Check one frem enty)	□ ≥ SOLIC (XX	N COURT 5	To GA	-	:14	LARG	581 CO	NTA NER	1000	D	'		5.2
FEO HAZARD CATES			J 1.	***							. —		716
(Chock all that 2004))	(X) A FIRE L	Jo REACTIVE L	i w Př	RESSURE F	RELEAS	e p	) c. AC:	ME FEAL	и п	e. CHR	CNICHEA	เาห	
AVERAGE DAILY 444	CLEVT 27°	MaxiMC9 nad≃y	₩0ux	·-	218	ARRO	AL WAS	TEAMOJ	ΨY	219	STAYE W	ASTE CONF	236
10,000		10,000					13,7	50				221	
UNITS* (Check one demonly)	(X) a. GALLONS	Fib. CUBIC FCC* * 6 CHS. ampuri	 T ]			d. 19N		.2 4		5. LD	7.78 CN 3 36.1	SITE	722
STORAGE	ABOVE OROUND TANK					: :0	E = F.E.	u čim	0.400	EDT-I	E 17 a	3411.043	
	UNDERGROUND TANK	□ 4 PLASTIC:N □ ! ÇAN	HIMMI.	18 I: IJK		, BAG					TLE III	RAG JIAF RAHTO	
(X) =	TANK:NSIDE BUILDING	Ш g. CARSCY			:J	k BOX	!	Цэ	поте в	iIN			
(3) 4	STEEL DRUM	∐ n SliQ			Ľ	CYL	NDET	当戶	TANK A	AGDY			223
STORAGE PRESSLA	(dagment)	IX) 5 ABC	VE 4M	HIFN.	Пэ	GELO	W AMUI	EMT					224
STORAGE TEMPERS	TURE STIR AMPLEMENT	(X) b. (A90	VE AM	IBIEKT	6	Berg	W AME	ENI	F. c. CH	YOGLE	aiC		225
%WT	HAZARDOUS DON	MPONENT (Enr	mixtu	IFF OF WAR	sle onl	γ)		T45			5	AS#	
1 225						22.	Yes	No	778				225
2 (%)	<u> </u>					2:	□Yes	□ Nr:	232				262
9 2%	!					295	! TYes	(] Na	296				297
4 230						739	' Yes	[] Na	240				241
	! 					245		∐No	٤24				
													245
Pimora hazaidous compo <del>-√o</del> i.mation.	randa ere present al greebe vo	er-1% by wought it no	17-53/61	nogeme, or D	11% bγ w	HQTI S	ום:חוזיכז	inic, scieti	ad:)llome	l abesta	of paper ca;	::.mn; lhe requ:	
ADOL JAMOITIQUA	LLY COLLECTED INFOI	RMATION									·		345
"EPCRA, Please S (Facilities reporting 6 —	ign Meile Chemicals subject to 6.90	ORA reporting to	mahol	ida muat si	gs noc	h Coc	mico/ Di	osospilor	rpego fi	creach	EPCRA	τοριοπος αλο	vmica/)
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		MATERIALS HAVE						ene par bulgary	: NE
(JA00	Castelle	μ) REVISE		REPORTING	YEAR 2004		200	Page 23 01:	55
		I- FACELIT		LATION					
		VIE of DOA - Doing Busines	56 A8)						3
EL SEGU CHEMICAL LOCAT	<u>JNDO POWER LL</u> O ION	·		201 1 (1)	немісаў і Оз	CATION CO	MEIDEN		
		AREA & ACCUMULATION	AREAR		PCRA)		ineirien S IX; N		246
	MARIE STOROGET	9.500	7	MAPP (april			# (aptional		254
FACILITY ID #	1 9 0 1	3 3 0 0 0	1 1	1			Н	———	
<b>1.7</b> 1		1t. CHEMIC	AL INFOR				_		
SMAP JASIVBES	DETERMINE THE	THE .T.	O# 15-:		ADE SECRE		_	(X) No	215
00000000000		TILLATES (WASTE )	DILISOLID			Ajast to EPO-M			206
CAS#	8002-05-9	TED SOIL/SOLIDS		, -	iS" EHS is "Yes"	gli paravet		(X) No must be in the	
	- <b>60</b> 02-05-9 ® CLASSES (Corper do	national nat			E-1015 -85	en anatid	· · · · · · · · · · · · · · · · · · ·		5 71N
PAZARDOJS MATERI		er rapidated						:0	213
TYPE (Check one liem		)5 MIXTURE (X) c. WASTE	: 211	RADIDACT.VL	1 1Yes (X; N		CURII	rą	215
PHYSICAL STATE (Check one item only)	(X) a SCUD 🗆	ja. Leuio ⊟e. GAS	718	LARGEST CON	DANER 50	90			
FFC HAZARD CATEGO (Check at that sopiy)		] b. REACTIVE [] c PRESS	BURE RELEASE	E (X) c ACU	UE HEVETHI (	Пе. сикол	VIC PEAL	ſ.	216
AVERAGE DAILY AMO	217 TAUL	TALOMA YEIGE MUMIXAM	7° E	ARNUA, WAST	E VINOSAL	279 3	AM ETATE	STF CODE	770
220	l	13000	!	19,80	oğ	75-		23	225
UniTS* iGheck one tem only! STCSAGE	I le GALLONS	LIS CUBIC FEET (X) o Po F # EHS, second considering		TONS		22- 10A)	ra ON SI 365	· L:	
CONTAINER     2	UNDERGROUND TANK	□ 6. FLASTIC/NONMETAL: □ 1 CAN		, B/VS	IN PLA	are out the	H47	BAD IIA FEHTO	
	TANK INSIDE BUILDING	☐ g. CARBOY		A BOX	□ s. (¢)(				
99) d.	STEEL DRINK	□ N 58 O		CAFIADEM	T. D. TANK	YANG (IN			227
STORAGE PRESSUR	E (X) & AMBIENT	· · <b>–</b>		BELOW AVIBIS	NT				224
STORAGE TEMPERA)	CALL (X) & AWAIF VT	☐ 0 ABOVE AMBIEN	47 <u>-</u>	BELOW AVBIE	ST De	CRYOGENIO	;		:25
56WT	HAZARDOUS CON	#PONENT (For mixture :	or waste only	y)	EHS		CA	NS#	
1 85.00 28	Petroleum Hydroca	arbons		??? □Yes	□ No = 22 	a   80024	55-9 		285
2 230				231 □Y≙6	No _2%	2			700
3 234				72   Tes	□ No 23	6			2247
4 230				233 ⊡ves	No26	u			541
5 247				243 F,Yes	□No 244	.			745
.f mare hazardous pamps	nants are present at greater the	an 1% by weight Prior cassing a	nio. 07 <b>7.1% by </b> ↔	ely-i dosrawage	ης, eccept add d	ona sheets of	bater cetal	aut pe isoni	1d
ADDITIONAL LOCAL	LLY COLLECTED INFOI	RWATION					·-		246
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if EPCRA, Please Si (Facilities reporting C		DRA recording thresholds a	nast sign eech	: Chemical Se	essiation pays	е (ольарфіі	BPCRA F	ураляні спол	nic <i>al )</i> 
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□ACO	∏∷eler	E (V) R	FVISE		REPORT	ING YEAR 2	£04		270 Fag	e38 af 35
		l.	FACILITY	INFOR	MATION					
BUSINESS NAME (	Same as FACILITY N	AMC or DDA – Doa	ng Business .	As;						3
	<u>INDO POWER, LI</u>	<u>.c</u>						T 00-1		
CHEMICA; LOUATI	CN				201	CHEMICA (EPCRA)	FOCV	TIÇN GON Li YEŞ	F D⊆NTIAL OO NO	222
KAZARI101	US WASTE STORAG	E AREA & ACCUM	ULATION A	REA		1	<u></u>			204
FACILITY TO #	1 9 1886 0 1	3 25 3 0		1 <b>1</b>	MAIN	F (opulosof)	2.1	3 GRID#	(ectoral)	2.5
			1-1-1	· - · !		_1			l⊰	
		II. C	CHEMICAL	LINFOR	IDITAM	N				
CHEMICAL NAME			_		205	TRACE 58	CRE		Yes (X)	No 205
	PETROLEUM D	HSTILLATES (	WASTE LI	UBE OIL	_)	l	Il Suigo		ileriy namana	
HMAN NOWMOD	WASTE LUBRI	CATING OIL			207	EHS*			☐ Yes (X	
CAS#	8002-05-9				209	*If CHS is	'Yea', a	ll amo <sub>l</sub> ists	below must	
FIRE CODE HAZAR	RD CLASSES (Smarro	Kreticised by (CJPA)								210
HAZARDQUS MATERI TYPE (Check one item		————————————————————————————————————	ja, WASTE	2.1	RADIOAS	IIVE ∏Yes	(X) No	272	GURIES	213
PHYSICAL STATE				0.4	LAGREET	CONTAINER	55	_		215
(Check one item coly)		pg e. ugur> L	in GAS	2.4	SALUE:	CONT. PROPERTY.				
HED HAZARC CATEG (Check ## P⊌# #p(n))	ORIES POINTERS	TIE. REACINE D	] ⇒ PRESSUE	RE RELEAS	iE (%) d.	ACUIT REAL	тΗ Ц	e CHRONIC	HEALTH	21E
AVERAGE DA LY AMO	THKT 217	MUNRYUM GAILY	AMOUNT.	2.1.	ANNUAL	MASTE AMOU	<sub>Б</sub> Т —	718 ST	ATE WASTE	CODE 227
220		1550				4,000			221_	272
UNITS* (Chack one dem orb)	(X) a, GALLON	S ⊟6. CUBIC FEE	T De 20. Ce al colless	.NOS TÌ Linds	a rons			7: DAYS	365	
STORAGE TONYAMER (18)	MAT DAUGED BYORA MAT DAUGEDERGY	C E € PLASTICIN	OAMETA, IC	DRUM E	I FELP.	DRUM □m □.a	. (0) ASS PLAST)	BOTTLE CBOTTLE	□ a.RAQU □ s.DTSSR	;A4 ?
Г. :.	TANK INSTREBUSIONS	🗌 д. САЯВСУ			k BOX	30	TOTOL	WK .		
(X) d.	STECL DRUM	□ n SILO			). GYJIND	ER ∏p.	TANKW	AGON		22.5
STORAGE PRESSUR	C (X) + AMSIE	NT D ABO	TRAIEMA AV		BELOW	AMBIENT				224
STORAGE TEMPLIKA	TURF (x) + AMBIE	NT DO ABO	IVE AMBIENT	 _ :	. BELCW	AMRÆNT	33 d C:	POGESIC		
%WT	HAZARDOUS CO	OMPONENT (Fo	ı m xjhtê ni	waste or	nty)	Fits			CAS#	
· 95.00 224	Petroleum Hydro	ncarbon			227	Yes 🗆 No	225	8002-05	5-9	229
2 790	· · · · · · · · · · · · · · · · · · ·				29·   □	 Yes □ No	220			225
3 234					275	Yes   No	225			237
4 238	•		_		229	— Yes □No	040			241
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<b>□</b> 4.	CD	□DFI F	F		χјένι	I\$E			RE	FORTI	NG YEAR	2004	1	01 - Page 31 O	156
					I. F <i>i</i>	ACILI	TΥ	NFQ	RMAT	rion					
BUSINESS N	AME (Sany	a as FACILITY N	AME o									. —			;-
		O POWER, L			-			•							
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200			<u> </u>	400					┷	N/	<u> </u>	27	DAYS C	N/A VSITE	
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STORAGETER	PURATURE	(X) a. AMBIL	Kt	Пая	ABOVE	AMUIL	!	តា	; Rēl	CW AN	IR FNT	□n ⊆RY	OOFNIG		225
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7	239								25.	- E 170	ss ∐ Na	232		_	725
3	:94	<u>-</u> .							235	Ω×	os () Na	N#			221
4	785								272	<u>;</u> □Y:	s 🗆 40	24:			243
5	242								241	□Y:	s No	244			- 245
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		(x) REVISE	REPC3	TING YEAR 200	04	707 Page 32 d	(56
		I. FACILITY I	NFORMATIO	N		 	
	(Same as FACILITY NAME or DB	A - Doing Business A	s)		1	·	:
EL SEGI TACOL JACI <mark>MEHO</mark>	IJNDO POWER, <u>LLC</u> FON		27	CHÉMICAL I	EGSATII	ON CONFIDENT AL	262
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FACILITY ID #	1 9 0 1 3	3 0 0 0 1	1   MA	* :00 per 0	20)	CRID# (spicios) V	204
•		II. CHEMICAL	INFORMATIÓ	ัพ			
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	POLYMER, CAUSTIC, IN	AQUEOUS SOL	אסודע	1		LPE We minute minusions	
COMMON NAME	NALCO EG-5010		7 %	1	-	☐ Yes (X) No	226
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1 20.00 2%	Sodium Hydroxide		797 [	Yes 🗌 Na	22n 1	310 /3 2	525
2 230/	/		:31	Yes □ No	727		2972
2 1	•		225	Yes □ No	725	• •	237
4 298			225 E	]Yea □ No	272	. –	261
5 242	<u>:                                    </u>						
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	פס	DELET	Ē	(x) R5 V				O YEAR ?	'504		<sup>200.</sup> , =а <b>да 3</b> 3 ±5	56
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		Same as FACILITY N		r OBA – Daing	Business As)							1
EL S CH <u>EMICAL</u> U		NDO POWER II. ON	I C				ध्यत   с	HEMICA	L LOGAT	TION CONFI	DENTIAL	220
		SE, SOUTHWEST 5	IDE					E⊃CRA)		☐ YES (		
FACILITY ID		. B. 1	3	2 : n l	0 0 0 1		MAPA or	EMAG	209	∏ GRIDĒ{⊚	pégnali	004
	<u>*   '</u>	1, 1,		<b>3</b> 1 1 1 .	<u></u>	'.L l.	1			<u> </u>		
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CHEMICAL N	AME	DD 40 1115					501 7	RACE SE		_	Yes (X) No	730
		PROPANE					23/ F		Plichari	m FPCRA, now	<del></del> -	205
COMMON NA	41-11-	PROPANE	··					diSr Republic	"Yes" all		Yes (X) No own:ust bein lb	
	IAZAR	DICLASSES (Carateles	divers	: IN CUPA:							011 1.031 50 1110	~ <sub>2</sub>
HAZARDOUS						N-4 BAI	מים ארדיוני	E EYes	O'L No.	212	CORIES	2.3
TYFE (Gheck o	ne har	onty; ] a. P.:RE	(X) E. N	OXTURE ] 6	WASTE		DIMACT VI		(A) Inc	2.2	· ·	- 255
PHYSICAL STA (Check are lien		a sc.ip		: א סוטפו	. GAS	2's LAP	IGEST 60	NTABLER	25			:
FEC HAZARO ( (Create ali mate	•	(X) a FIRE	n F	FACTIVE (A) c	PRESSURE REL	.EASE	O() d. AC .	TE HEALT	 [/  □ e	сикача Н	EALTH	nie.
ACTION TVA	Y AMIO	JNT 25T	MAXI	MUMINAL Y AXK	OLINT 2	ES ANY	VJA. WAS	TE AMO.	¥T	219 STAT	WAS!EGODE	200
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CRITS*		□ a GALLON		. GUMCTEL:	П с. Родина		DME		23	" DAYS O İ √	NISITE: 365	772
(Check one ner STORAGE				<u>l Enĝ. ambort mi</u>								
CONTAINER		AROVE GROUND TANK INDEAGROUND TANK		- PLASTICINONI FICAN	MUEC OLIGITAM	P. III I P. III I				BOTLE ]		
	E a C	ANK INSIDE BUILDING		CARBOY		□ k R€	ax	□ c.	TOTE	N		
	€:	STOCK SALVA	Ľ,	SILO		$p_0$ , $p_1$	PACKITA	□ p.	TANK WA	IGON		173
STORAGE PR	ESSEM:	: □ a. AM90E	KT .	(X) a ABOVE	AWRENT	∐ 6 BE	LOW AMB	IENT .				374
STORAGE 164	PERAT	URL DIS AVBID	۲,	LIP MON	AMBIENT ;	(X) < 1891	LOW AMB	IEST	□ e. CR'	YOGENIC		22%
%)VT		BAZARDOUS CO	OMPO	NENT (Fairin	ixture or waste	e any)		EHS			GAS#	
1 0 50	у2ь	Ethane				227	¦ ⊔ Yes	s 🗀 Na	154	74- <b>ē4</b> -0		259
z 87 50		Propare				271	□Yes	□ No	11.7	74-95-6	-	235
							<u> </u>					
3 0.50	794	Propylene				205	Yes	s 🗆 No	736	115-07-1		317
4 2.50	238	Butanes				209	□Yes	□ No	240	Various		541
5 0 01	240	Ethyl Mercaptan	(50 p)	orn)		243	Yes	 □No	244	75-18-01		245
	comptr	anta are present et greste	then 1%	b; weight if non-c	аголодогіс, от 8.15	X by weight	if care neg	an o. sēlāch	<u>बर्ग्यं (क्ल</u> ंब)	chá <del>s</del> tí s <del>á</del> papa	Capturing the recision	<u></u>
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рашиная лара	nang C	bemicals subject to 5	707A	паражира плез	eranis most sign		· ·- — ·		. <u></u>	rocum LPL	epones sivei	
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	90	∐DFT÷T	-	(x) RE1		_		RUNG YEAR	7004	20	Page 34 of	58
				I. F	ACILITY I	INFORM	MATIC	·N.				
		9 FACULTY N POWER LO		A – Doing	Business A	s)						- :: :
CHEMICAL LO			· · · - · · ·				2.	ir (i chemic	ÄL LODAT	ION CONFIDE	ENTIAL	706
HAZA	ARDOUS WA	STE STORAG	E AREA &	JOS LOC	MCITA			(EPGRA		TCS (X)		
FACILITY ID 8	ŧ   1   9	0 1	3	3 0	0 0 1	1	WA	P# (ystere)	203	GR:D# (care	eral)	704
				II C	- REMICAL	INFOR	MATI(	DΝ				
CHEMICAL N	AMS			•				F PRADE	SECRET	ΩY	es (X) No	25%
	5AN	D BLAST G	RIT WITH	LEAD				1	P.S.Eyez	IN FYCER, Willer Ic	ndinalora	
COMMON NA	ME WAS	TE SAND B	LAST GE	<b>रहा/DU</b> C	T SWEE	<del> </del>		<sup>27</sup> → EHS1		7 C	'es (X) No	509
CAS#							24	P PEAS	is "Yes" all	amounts belov	w must be in b	
FIRE CODE H	MZARD CLA	SSES (Company	il mgabas sy f	(11790)								210
HAZARDONS & TYPE (Creex or		∐e Pyāř	Ша МОТ(п	RF (X) a	WASTE	2.1	RAD OA	ACTIVE □Ye	s 00 No	212 CU	IRI5G	3.3
Persion, STA (Check are den)	_	DQ # \$050	⊔ııqııır	. ü.	GAS	214	LARGE	ST GONTAINE	R 500			21=
FED HAZARD C (Gheck all Shaka		Па. АБС	□ b REAC	TME =	: PRESSURE	RELEASE	(x) «	S ASSISTE HEA	uπ □ a	GHRONIO HEA	ALTH	:le
WERAGE DVIL	TAUCMAY	217	MAXIMUN	DATE AN	TMUC	2.1	ANNUA	LWASTE AND	DINT	275   STATE)	MAGTE CODE	770
1000			l <u>2</u>	<u>(0</u> 603				26,000			181	
JNITS! (Cheek and ben)	colyi	☐a GALLONS			(X) c. POUN		ICMS		27	: • DAYS ON 36		222
STORAGE TONTAINSM		GROUND TAN GROUND TANK			NMFTA! (!C.F		i Fiasi		T. GLASS 6 N. PLASTIC	UTILE ∏. q BGTILE ∏ n	RAIL-CAR GUIER	
	□ c TANKII	NSIDE EDIEDING	∏ g. ©/	400%		_	k 9OX		a TOTE SIN	4		
	(X) d. STEEL	DRUM	⊑ Sit	.0		u	CY_N	IDER 🔲	p. TANKWA	SON		223
STORAGE PRE	SSURE	(X) a. AMB/E	aı C	le ABOVE	- AMBLÉMÍ	□ =	BELOW	VAMBIENT				774
STORAGE TEN	PERATURS	(X) a. AM9/E	NI .	b. Agovi	E AMBIÉNY	□ c.	BELCA	V AVRIENT	□4 SRY	OCENIC		775
% <b>%</b> T	HAZ	ZARDOUS CO	MPONE!	NT (For -	nixture or v	vaste on:	v)	EHS			CAS#	
1	77 <b>f</b>				<b></b>		27 [	∐Yes ∐ N	n 220 j			779
2	750					_	231 [	∏Yeş (☐ N	יגי			213
3	224						225 (	☐Yes ☐ No	236			77.
4	228						20F [	_Yas □ No	24N :			341
 Я	242						240 [	_YesN	244			:45
	: Genganenis are	presental greek	dan 1% by e	elghi dinan-	cascinogenio, d	raisb, w	eght if a	ersirugenz, effe	ich add bor#	<del>shaeth si pa</del> par or	og, o <mark>gy tha nequi</mark> r	14
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if EPCRA, Pics												İ
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. Ла	DH .	∏iserei	F	(x) REVI				YEAR 20	04		250 7.	39 af 59 بىرىم	·
					CILITY INF	ORMAT	ON						
		ame as FACILITY N NDC POWER, L		: DSA – Doing B	Busviesa As)								2
CHEMICAL !											FIDENTIA	L	723
I-AZ	ARDOU	S WASTE STORAG	E AREA	l.			16	PCRA)		☐ YFS	(X) ND		
FACILITY (D	<b>#</b> 1	a 0 1	3	3 0 0	0 1	1 [ '   "	₩P# 1997 1	ocal)	500	GRID	(spannin H		254
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CHEMORE		SODIUM HYDRI	n vine	SOLUTION	I		''	VIDE OF			oferio Ineliud V	•	
COMMONIN		WASTE SODIU					207 E	HS'	1 4 4 4 4 4 4		∐ Yes (		21#
CAS#	TUBIL	MADIL GODIO	, , , , , <u>, , , , , , , , , , , , , , </u>	NONIDE SE			·		/es*, at	announis	Delgramming		
	HAZARI	DICLASSES Camples		d se EURAi									7111
KAZARDOUSI													210
TYPE (Check :	are nem i		∏l: V	хтияа жүсү	MASTE 	211   3401	DACTIVE	□res (	x) <b>16</b>	. 779	CURNES 		7 in
PHYSICAL STA (Check one has		⊞ a. \$O⊔0	(x) b 1	igum Lije	GAS	214   LARS	EST CU	TAINER	55				
FFID HAZARIC		RIES											215
(Check of that				REACTME LL 0									210
AVERAGE DA	ILY ANO.	JNT 2:7	MAXI	MUM CAILY AMS	IIII	216 ANNI		TE AMOUN	•	C> 5.	ATF WAST		2.0
900			<u> </u>	900		l	200			4 1 2.462	135		282
UMBS* (Ogeak one Ber	o oriy)	pq a GAILON		GUBIC FLET E <u>HS, amount m</u> u			5			UAY:	365 365		
STORAGE CONTAINER		BOVE GROUND TANK		= PLASTIC/NONI 1 CAN	METALLIC DRIJ	M ⊒ 1.F3 L   BAC		□: F	LASTIC	ROLLER	⊒ e RAILO □ othe	CAR IS	
	Opt	ANK INSIDE BUILDING	) ];	, CARDOY		□ k ac		_	010.6				
		STEEL DRUM	П	1 8150		CN	INDER	□ p. <sup>-</sup>	ANX (7)4	GC M			220
STORAGE PA	ESSURF	(X) a AMB(B	NT	☐ PLABONE	AMBIEST	∐ n BEL	OW AMEN	ENT					224
STORAGETE	меглат	CRE (X) A AMOR	EN1	П.Е. Д90∨С	AVBIENT	Lj ∴ EEI.	GW AMBI	ЕНТ Г	] d. Chi	rogunio			225
55/W.C		AZARCOUS C	OMPO	NENT (For m	xture or was	ste only)		EHS	_		CAS	<b>#</b>	
1 2.00	226	Sodium Hydroxi	de			227	☐ Yes	□ No	778	131073	2		329
2 98.00	530	Water				724	□Yes	 №	232	7732-18	B15		2%
3	234					275	⊡ Yes	□₩o	236				731
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2 736				22:	□Yes □ No	332		235
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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION □DELETE (x) REVISE REPORTING YEAR 2004 Page 40 of 55 FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME of TBA - Doing Business As; 2 EL SEGUNDO POWER, TIG 202 CHÉMICAL LÓCATION CHEMICAL LOCATION CONFIDENTIAL □ 'YES (X) NO (EPCRAI) SOUTH OF UNIT #2 & HAZARDOUS WASTE STORAGE AREA දිවර GRID# (rpdom) MAP# tockorate 206 FACILITY ID # II. CHEMICAL INFORMATION CHEMICAL NAME TRADE SECRET Yes (X) No 7114 WASTE PAINT SOLIDS/SLUDGE Si Zuband for MCMR, rutur to enfourtions 207 203 COMMON NAME ☐ Yes (X) No. 209 CAS# "If EIKS is "Yes", at amounts below must be in the. 772 FIRE CODE HAZARD CLASSES (Constate 4 required by GUPA) 712 HAZARDOUS NATERIAS RADIOACTIVE TYPES (X) No 212 CURIES ☐ A PURE ☐ D MIXTURE (X) 5 WASTE TYPE (Check one liem only) 215 PHYSICAL STATE LARGEST CONTAINER (X) a SOLID □t. LOUID (Check one item coly). Do CAS FEDHAZARD CATEGÓRIÁS 21<del>0</del> (X) a FIRE □ 5 REACTIVE □ 6 PRESSURE RELEASE (X) 6. ACUTE REALTY □ 6. CHRONIC HEALTH (Check all the report) AVERAGE CALLY AMOUNT MAXIMUM CAILY AMOUNT 238 TRUCKA STEAM JADRAN 79 STATE WASTE COCC 229 11,150 110 44C 177 DAYS ON SILE: UNITS\* The GALLONS TO CUBICIFLEY (XI o POUNDS DE TONS 395 Check one item any) \* # EHS, amount must be in acquis-TRAGE CONTAINER ☐ 1 FISER DRUM □ MAGOVE GROUND TANK ☐ a PLASTEJNONMETALLIG DRUM ,Tim. GLASS 9011LE | □ q BAIL ÇAR □ n. PLASTIC BOTTLL □ r OTTLE THE UNDERGROUND TANK LI UDAN □ i BAG □a TOπEBM □ a TANK INSIDE BOADING □ u CARBOY □ k 80X Wild, STECL OR JW. ☐ i CYLINDER □ p. TANK WAGON 223 OCAL AMBICAT LL c. RELOW AMBENT 254 \$109AGE PRESSURE D ( ABOVE AMBIENT LIN ABOVE AMBIENT \_a CRYDGENIU IXI e. AMBIENT C BELOW AMB ENT 275 STORAGE CEMPERATURE CAS# EHS FIAZARDOUS COMPONENT (For mixture or waste only) ኤሌኒፒ 🖪 Yes 🗀 No 1 20 00 Mineral Spirits 201 54742-88-7 229 z 20 0**0** Aliphatic Petroleum Distillates ⊇Yes 🗀 Na 200 8052-41-3 233 ☐ Yes ☐ No. 226 68547-72-3 337 3,20,00 224 Citrus Tempenes □Yes □ No 64742-74-8 24. 4 20.00 Severaly Hydrotreated Light Distillates 24D 5 □Yes □ No 24) Himper hazardous components are present at greater ther 1% by would, if you care nugerily of \$1% by weight if elegating \$40, where and some arrest of paper capturing the required ADDITIONAL LOCALLY COLLECTED INFORMATION If EPCRA, Please Sign Rere g acutios reporting Chemicals subject to EPCRA reporting thresholds rousl arguleach Chemical Description dage for each EPCRA reported chemical ).

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3	234						285 🗆	Yes □ No	236 j			721
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			I. FACILITY I		TION	-		
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	HAZARDOUS C	OMPONENT (F	For mixture or w	aste only)			1	5#
1 2% 226	Citric Acid			297	. 🗆 Yes	(x) No 226		279
 2 1% 220	i - Sodium Hypach	 krite		231	LYes	(x) No 282	7 <del>6</del> 81-52	2-9 2:2
3 m4	<del></del>			726	☐ Yes	☐ Na 2%	I	£97
A 235				271	□Yes	□ No 240		241
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				I. FACILIT	Y INFORMA	FION		- · · ·	
HUS NESS N	VAME (Sanse as	TACILITY NA	MB or DBA - 0	Doing Business A					
	SEGUNDO			<b>b</b>					_
GHEMICAL I						201 FORAMI	GAS LOSSA IV	ON CONFIDENTIAL	206
HAZ	ARIXOUS WAS	TE STORAGE	- 47/6			! (∺нав,		YES (X) NO	
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L		_		II. CHEMICA	L INFORMA				
CHEMICALIN	JAME					200 TRACE	SECRET	⊒Yes (X) No `	208
L	ÉI	LECTROLY	TE				#Sebsech	デクタル em windows sections	
COMMON N	AME BA	ATTERY AC	CID			301 FH2.		☐ Yes (X) No	200
CAS#				-		<sup>203</sup> <sub>1</sub> 10598	S Yes all a	nounts below most be in ibs.	
FIRE CODE	HAZARD CLAS	SES resimples t	regulate by CLPA	: ··· <b></b>					210
7 IAZARDOUS I	MATERIAL								2:3
TYPL !Chock o	we dom oaly)	□ & PURE	(X) & MIXTURE	☐ a WASTE	7:1 R/D	#OAGTNE ∏Y	58 (Y) 40	2r∠ CURIFS	
· PPMSKALSTA	 4Т5	_						<b>-</b> · ·	2-3
ji (Chock one <b>s</b> er	n only]	∏ a. SQLIO	(XN %, LICUID	□ i: GAS	714   LAR	SEST CONTAIN	FR		
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AVERAGE DAL	Y MACCANA Y	<del></del>	Maximing Da	ILY AMOUNT	276 ] ANN	UAL WĀŠTĒ AM	CUNT :	THE STATE WASTE (COLE	220
150	D		: 150	ነሱ	į				
į : <u>==</u>	<u>.                                    </u>	<del>.</del>			;		· 221	T DAYS ON SITE:	222
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		ROUND TANK	☐ 1 CAN		LJ j. 8A			DETLE (X) - OTHER	
i	□ a. TVNOCHYS		☐ n. CARBO	ΣY	∐ak BO	_	D. TOTE BON	<u>BATTERY</u>	
	1 1 d. STEEL D	MUM	h. SILC:		□ I. ¢Y	DMOEK []	n. TANK WAS	GN:	223
отовых ва	LISSUMAL	90 a. AMBIEN	T 🗀	AZOVE AMBÆNT	□ e BEL	TIABUBURA VAD			724
	4B-50 b T2-1						-=		
STORAGE TEX	MPSRATURE	(X) a. AMBIEN	۷۱ <u>۲</u> ۱۵.	ABOVE AMBIENT		GWAMBEYT	⊒ಗ ಬೇಳುರ	GENIC	209
S6W/F	HAZA	ARDOUS CO	MPONENT (	For mixture or	waste only)	Er:\$	;	CAS#	
<u> </u>	:				•••	⊢ <i></i> −	I		
1 29.3	മ⊳¦ Şulfur	ric Acid			227	☐ Yes (x) Ni	D 258		226
	l <u>_</u>						·- <del>-</del>		
2	290 :				205	E796 ∃ N	0 252		2712
	<u> </u>					!	· •		
3	234				235	D Ves D No	o 245 I		737
	<u> </u>								
4	2.14				239	∐ves L⊺no	240		241
	;								
2	247				242	Dves GNA	244		245
V more have \$45.00	YOMAN SHE SE S	AND LANGUAGES	Num BU lave-1-4-1	<del>1 ===</del> ================================	man day b	. – –		tts of paper anglumning the required	
ntorreation	. сопроизват р	resall: al girande d	an is by worth	1 monecum: monjen c.	nestra extraolectic	cardinagene, anac	Yi add bonii shec	pares tentral conditioned upon undinjud	' I
ADDITIONAL	LOCALLY COL	LECTED INFO	RMAYION						245
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If EPORA, Plex	man Surta Island								
		subject to APS	IKA mpanaka	thresholds must	8/00 весії Слета	ual Description	gang for each	EFCRA reported chemical.	
							L-3 R41.11	— one reported desired.	
								<u></u>	
FFICIAL	USE ONLY		DATE	RECEIVED		R	EVIEWED BY		
⊮FF <u>[CIAL</u> DIV	USE ONLY	——г	DATE	RECEIVED OTHER		RI STRICT	CUPA	PA	-

	Drele	TE (X) REVISE	RE	PORTING YEAR 2		200 =age 48 of 56
			TY INFORMAT	ION		···· ·
	IE (Same as FACILITY N GUNDO POWER, L	NAME or DBA – Doing Busine LLC	ess As)	••		
OCCULACY WEND				80   CHEMICAL (EPCRA)	TODATION CON	MFIDENTIAL 12년 (X) NO
FACIL:TY ID #	1 9 0 1	3 0 0 0	1 f	MAP# (sphere);	259 ° ©нгда ј	F (colorus:
		EL CHEMIC	AL INFORMA	HOIT		
CHEMICAL NAM	WASTE WATER	WIN EAD		205 TRADE SE	ORET	Yes (X) No 207
COMMON NAME		VASTE LIQUIÒ (LEAD)		717 EHST	E SUSPECTO ENTRE TO	☐ Yes (X) No 300
CAS♥				·	Yes", ak ampunis	below must be in bs
FIRE CODE MAZ	ARD CLASSES (CATAOR	e Tressing SUPA)				210
HAZARDDIJS MATT TYPE (Check one ili		TEMIXIURE (X) & WASTE	211 RAD	ilΩACT.VF ∐Yes :	(X) No. 212	CURIES 213
PHYSICAL STATE (Check one best only			ens il Lan	GUS CONTAINER	£5	245
FED NAZARD CA () (Check shreat goply		□ b. REACTIVE □ c PSES	SURE RELEASE	(X) d. ACUTE HEAL)	Te SHRONI	o (IEALT)i
AVERÁGE DAILY A	VOLK1 1917	TRUCKA YIND MUNIXAM	718 ANN	WAL WASTE AMOUN	en 219"  <u>"ET</u>	ATE WASTE CODE 220
55		110		110		135
		C CAN	1 00.7ds	.————————————————————————————————————		SON STE: 122 365 □ q. RAIE CAR □ 1. 01458
-	d. SIBEL DROV	☐ h. SILO			ANK WAGON	TSP.
STORAGE PRESS	JRE (X) a AMBE	ENT DIS ABOVE AMBION	NT LD c. 95L	OW AMBIENT		224
STOPAGE TEMPER	KATURE (X) AMBIE	ENT IN AROVE AMBIE	MI CI = OCL	OW AMBIENT [	C GRYDGENIO	5)[
%WT	HAZARDOUS C	OMPONENT (For mixture	ur wasle orly)	EHS	i	CAS#
1 274	, ! 		127	☐Yes ☐ Nc	22M	776
\$ ===	1		23:	DAGE   N.3	217	270
3 29			235	∴ Yes (TNo	238	73?
4 .396	, <b> </b>		pas	LjY8≲ ∐No	; 540	541
5 242	<del>- </del>		24)	Fives Linc	24	745
f mans hexardous com	en a Posterás are present al grecto	erman 1965 <del>- sight d'not calc nog</del> e	inc, or 2.1% by weight i	M serstragen 4, arcisch a	add and sheets of pig	Jet As Aluding Hearing united
ADDITIONAL LOC	ALLY COLLECTED INF	FORMATION				746
f БРСРА Ріхаве Пасім'яз геропиз	Sign Here g Chemical's arriginal to 8	EPCRA reporting transiends n	nust syn each Civ	amicai (Jescoption)	oage for sech EF	**************************************
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	٥		TE	(X) REVISE		KEPOF	TING YEAR 2	034	290 Page 49 al	55
				I. FACILITY		MATIO	Ň			
		icie as FACILAY I DO POWER, I		or DRA – Coing Business A	lsi					- 5
CHEMICAL LO				<del></del>		- ×	: L C/IEMICAI	TOCATI	ON CONFIDENTIAL	265
		WASTE STORA	GE AKE	-Α			(HPCRAI)		YES (X) NO	
FAGILITY ID≠	1	9 0 1	3	3 0 0 0	1 1	) : MAR	°# (system) 1	277	SRID#(woorun H	234
				II. CHEMICAL	INFOR	RMATIC	N		<u>'</u>	
CHEW:CAL NA	AME.					23		CRET -	☐ Yes (X) No	2.77.
<u></u>				ASTE SOLID				d Subject to	EPCRA index to metractions	
COMMON NAI	<u>ME</u>	(CADMIUN	WITH	H DUCT SWEEP)		70.	<u> </u>		□ Yes (X; No	205
CAS#	6 7 3 1 3 1 S			:			"   ¶#EHS & "	Year, all B	mounts below must be in ib	s 
HAZARDOUS M		C: ASSES (Control	ent (epino)	ED by CUMAI						7:1
TYPE (Check con		у) Палчике	ПЬМ	BTZAW 2 (X) - BPUTXI	211	ACIDAS	OTIVE LIYES	(X) NO	717 CURICS	
PHYSICAL STAT (Chack one item-	ordy)	20 a 30.00	<b>□</b> b. <b>t</b>	euro ⊟∃icas	214	LARGES	T CONTAINED	5	00	- In
FED HAZARD OF (Check of that ap		IEŠ <sup>™</sup> ∏a. 9KE	□ b.	REACTIVE 🔲 c FRESSUR	E RF.FA!	5E (X) (	L ACUTE HEALT	тн ⊒е	CHRONIC HEALTH	216
AVERAGE DAILY	r AMOUR	1	/ MAX	HYUM DARY AMOUNT	211	ANNUAL	WASTE AWOUR	ijŢ;	85 TISTATE WASTE CODE	220
500				5000			10.000		181	
UNITS! (Check one kem (	enly)	∐e 041.05		. CURKO F56)) — (X) ita (Yulu) li EnS, empantimust se in pau		d. ICNS		15,	DAYS (WI SITE: 365	
		OVE BROOMS (AN DERSROLING TAN)		e. PLASTIC/NONVIETALLIC D		T. FIRER BAG			THE LING RAY CAR CHILL FOR ONESR	
	_	NKINSIDE BLILDINI		g CARROY		k BOX		TOTE GIN		
	(X) d. SI	SEL DRUM	コ	r. SLO	Ξ	CYLINE	NER []0	TANK WAG	ON	773
STORAGE PRES	58URE	(X) a AMBI	ENT	☐ N AROVE AMBIENT	ه 🗀	, BEILDW	AM9:ENT			224
STORAGE TEMP	ERATUR	RE (X) & AME.	ENT	☐ N_ABGVEAVBIENT	ە ⊔ -	nsiqu	AMBIENT D	] # 6340	GLNIC	225
%W*	: :	HAZARDOUS C	OMPO	NENT (For mixture of v	vaste on	ly; 	FIIS	ij	QAS#	!
1	726 . 					97 E	)Yes □ No	721		72P
z	730					29:   F.	l≃as IINo	F92		732
3	>34					236 L	Yes ∐ No	236		237
4 .	278					219 🗆	Yes [∐ Na	240	<del></del> -	26!
<u> </u>	242 :			-		241 🗆	Yes □No	2=4		245
History hazardous d Information.	:ama:qen	as and business of fivers	er dien 19	4 ву <b>начун</b> і <del>блоговіслодать, с</del>	r 0.1% by /	vanily up or .	cinogenia, attacti a	dddlenal sh	eels of paper capouding the reques	
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(Расийсе героп — —	ቦባያ Che	micels subject to i	EPORA	reporting Brianholds must	niga cap	и Ополе	te/ Description	page for e	iach EPCRA ieborted chen	vica()
·				г—						
*FICIAL U	ISE <sub>,</sub> OI	NLY		DATE RECEIVED			i_REVI	EWED 31	, <del>-</del>	[
DIV	j e	N	SIA	OTHER		l DIST	RICT	CUPA	PA	

HAP-CRIDE MAZARIO CI ASSES (CARONELIA (1920-2024))   134   142   137   142   137   142   137   142   137   143   143   137   138   138   137   138													Cha pann	permission per ciular	ng di Area)
### BUSINESS NAME (Sume as FAC-LITY NAME or DAY   Daing HUMBROSE AS)  E. SERGUNDO POWER, LLC  CHEMICAL DOCATION  #### CHEMICAL TO CATE OF A COLUMN   PER STORE AND A COLUMN	∏A	:111		FE	(X)	REVIS	Ē		F	(EFOR	TING YEAR	2034		223   Page 50 e	: 56
### BUSINESS NAME (Sume as FAC-LITY NAME or DAY   Daing HUMBROSE AS)  E. SERGUNDO POWER, LLC  CHEMICAL DOCATION  #### CHEMICAL TO CATE OF A COLUMN   PER STORE AND A COLUMN					1.	FAC	JILIT	Y INF	ORM/	ATION	ı				
CHEMICAL LOCATION   1	BUSINESSIN	IAME (Same	Za FACILITY N	₽MF-αr											
MADERIDOUS WASTE STORAGE AREA			) POWER, L	LC.											
PRODUCTION   Part   P	CHEMICAL L	CCATION								20,					202
R. CHEMICAL INFORMATION	HAZA	ARDOUS W	ASTE STORAG	E AREA	ι						,				
R. CHEMICAL INFORMATION   275   TRADE SECRET   198   X3 No. 275   TRADE SECRET   198   X3 No. 275   TRADE SECRET   198   X3 No. 275   TRADE SECRET   198   X3 No. 275   198   1	FACILITY ID	e <sup>i</sup> 1 9	2 A 1	3 8	<b>羅</b> 1 1 f	1 6	l٠	4 4		MAP	¢ (o:::3-N)	\$00			204
CHE-WICAL NAME						<u> </u>	<u> </u>	<u>L'</u> '	<u>'                                    </u>		1		<u>                                     </u>	<u> </u>	
Substitution   Subs					EL.	CHE	MIC.	AL INF	ORM	IOITA	N				
COMMON NAME   OILY WATER   21	CHEMICALN	IAME TO THE	•							725	TRADE S	SECRET		Yea (X) Na	>===
CASS   10   EMB STYRES   Blandouts below mail be in its		NO	N-RCRA HA	Z WAS	TE LIQI	JID					I .	f Šalgest I	EPČKA :el	er au mathactume	
FAND CRITE MAYARID (J. ASSES (CARREST LOCATED)   134   137	COMMON NA	AME OIL	Y WATER							201	EHS!		[	Yea (X; No	509
######################################	CAS#									2.9	" "IT EHS	Yes all	miourits b	elow must be in i	
PARTICULUS MALEKRE	F:HIF GOODE!	HAZARD (II.	ASSES (Concert	al regular:	rsy cuewn										
			П а. № Ч <u>.</u>	∏a, <b>w</b> :	X1685 (	x) 6 W/	4STE	,	21 K	ADKING	TIVE □Yes	(N) No	217	CUR ES	513
SOURCE   S	PHYSICAL STA	ATC							1	o a dic ét	· CONTEINER				217
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2	297				231	∐Yea □ No	2702		223
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### UNIFIED PROGRAM CONSOLIDATED FORM

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION strue bude per material per our congress and REPORTING YEAR 2004 []ACO CCELETE (X) REVISE Page 43 of 58 FACILITY INFORMATION BUSINESS NAME (Same as FACILITY NAME) or 1784 - Horry Hysiness As) : EL SEGUNDO POWER, LLC CHEMICAL LOCATION CHEMICAL LOCATION CONFIDENT AL 2012 ☐ YSS (X) NO (EPCRAI) HAZARDOUS WASTE STORAGE AREA MAP# (options) 204 GRID# focturate П II. CHEMICAL INFORMATION CHEMICAL NAME 725 F TRADE SEGRET 206 Yes (X) No AMMONIUM HYDROXIDE M Subjection EPGRA, relation and customs Tes (X) No 204 247 WASTE CAUSTIC ALKALI, LIQUID E43\* 201 "If EXIS is "Yes", all amounts below must be in that DAS# 240 FIRE CODE HAZARD CLASSES Convered (1934/2016, GUPA) 210 HAZARUUUS MATERIAL RADICACTIVE ☐Yes (X) No **GURIES** TYPS (Check one item only) JaPURG ⊟E MIXTURS IXIC WASTE PHYSICALISTATE LARGEST CONTAINER (Check one femiority) □ a.Soup φyε ugus 🗀 ti GAS 716 FECHAZARD DATEGORIES □ a HRE (X) S. REACTIVE □ CIPRESSURE RELEASE (X) C. ACUTE REALTH □ a. CHRONIC HEALTH (Check at that aboty). MAXIMLEV DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 270 AVERAGE DAILY AMOUNT STATE WASTE DODE 55 50 551 727 DAYS ON SITE. UNITS1 (X) & GALLONS LESS CUBIC FEFT. LES POUNTS LESS TONS 365 (Check one item only) i <u>if FHS, amount total pe in pounds.</u> STORAGE □ a ASCVE GROUND TANK
□ 6 UNDERGROUND TANK (X) & PLASTICA/ONMETALLIC DRUM ☐ : FIBER CRUM ☐ r CAN ☐ j BA2 ☐ TO GLASS BOTTLE ☐ C RAIL GAR COSTAINER 🗆 e. TANK 'NSIDE BUILDING ☐ g SARBOY ☐ v. BSX □ 5 TOTE BIN 🗆 d. STEEL ORUM □ t. SILD ☐ I CYLIVDER □ p. TANK WAS GN 221 STORAGE PASSURE (X) A AMBIENT □ n ASCAT AMBIENT □ a BELOW AMBIENT 284 STORAGE TEMPERATURE COLO AMBIENT □ 5 ABOVE AMBIENT S BELOW AMB ENT. 🗇 а сяуровную 225 55W L HAZARDOUS COMPONENT (For mixture or weste only). EHS CAS# 227 - 🗀 Yes 🗋 No 72B 1 225 225 ∐Yes ⊡'No 800 202 212 🗌 Yes 🗀 No. 232 3 723 ☐Yes ☐ No 244 □Yes □No 242 244 746 Prince teamings compagned at excess at greater than 1% by reaght of new contingents, or 8.1% by weight it perchagains. Attach and tone should be in it dailed applicant the required ASSITIONAL LOCALLY COLLECTES INFORMATION If EZCRA, Please Slan Here (Facilities reporting Chemicals subject to EPCRA, recording thresholds must sign each Chemical Description page for each, EPCRA imported chemical ).

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# Section 7.0 EPA Form 2C Appendix D Storm Water Pollution Prevention Plan

#### NRG EL SEGUNDO OPERATIONS INC. EL SEGUNDO PÓWER, ELC STATION PROCEDURE: EL SP 8-12

### STORM WATER POLLUTION PREVENTION PLAN (SWPPP) & MONITORING PROGRAM

EL SEGUNDO POWER, LLC

301 Vista Del Mar Boulevard El Segundo, California 90245 (310) 615-6028

### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

#### I. INTRODUCTION

El Segundo Power, LLC owns and operates a steam electric power plant located at 301 Vista Del Mar Boulevard. El Segundo, Los Angeles County, California, 90245 (the Station). The Station consists of one operating power block and one inoperative power block, each containing two steam electric generating units with a total in-service generating capacity of 670 MegaWatts (MW). The Station discharges wastewater and storm water to the Pacific Ocean as authorized by the California Regional Water Quality Control Board (RWQCB) NPDES Permit Number CA0001147, Order No. 00-084 (the Site-Specific Permit). This permit authorizes discharges of storm water and non-storm water (once through cooling water and industrial wastewater) under the federal storm water offluent limitations guidelines for Steam Electric Power Generating Point Source Category (40 CFR Part 423)

A storm water easement to the City of El Segundo is located along the non-industrial, southern portion of the Station. Storm water from Vista Del May Boulevard enters the Station from an underground pipeline located at the southeast boundary of the Station that discharges into a paved surface swale that conveys the storm water to its ultimate discharge to the Pacific Ocean on the southwest corner of the Station. This discharge is regulated under the NPDES permit for discharges from municipal separate storm sewers (MS4s) issued to Los Angeles County and the cities in Los Angeles County by the RWQCB. Since this storm water discharge does not come into contact with the Station's industrial processes nor is it under the control of the responsibility of the Station, and is separately permitted by the RWQCB, it is not addressed under this Storm Water Pollution Prevention Plan (SWPPP).

This SWPPP has been developed for the Station to address the requirements of the Industrial Activities General Storm Water NPDES Permit issued by the State Water Resources Control Board (CAS000001) (General Industrial Storm Water Permit). The SWPPP is intended for use in conjunction with Station Procedure EL 8-12-B, Storm Water Monitoring Program.

The SWPPP has two major objectives:

- A. To identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water prior to it commingling with the Station's non-storm water discharge.
- B. To identify and implement site-specific best management practices (BMPs) to reduce or prevent poliutants associated with industrial activities in storm water. BMPs may include a variety of pollution prevention measures or other low-cost and pollution control measures. They are generally categorized as non-structural BMPs (activity schedules, training, staging of spill cleanup materials, probabitions of practices, maintenance procedures, and other low-cost measures) and as structural BMPs (treatment measures, run-off centrols, secondary contamment everhead coverage).

#### Π. FACILITY PLANS AND PROCEDURES

The SWPPP incorporates by reference the following existing plans and procedures:

# EL SECUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

- Station Procedure EL 8-1: Spill Prevention, Control and Countemneasures (SPCC) Plan;
   Station Procedure EL 8-2: Hazardous Materials & Hazardous Waste Management Plan;
- Station Procedure EL A-J22: Chemical and Lube Oil Deliveries.
- Station Order LL 7-8: Emergency Preparedness and Emergency Response Plan;
- Station Order EE-06: Oil and Hazardous Substance Spill Contingency Plan;
- Station Order EL 0 103, Locking of Critical Valves;
- Unified Program Hazardous Materials Business Plan.

#### III. PLAN AMENDMENT AND IMPLEMENTATION

A copy of the SWPPP shall be retained on site and made available upon request. The Station shall submit a SWPPP revision and implementation schedule if the RWQCB or the Fire Department determines that the SWPPP does not meet the minimum requirements. The SWPPP must be revised prior to changes in industrial activities that may significantly change the quantities of pollutants in storm water discharge or introduce a new pollutant source at the Station.

#### IV. PLAN CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name: Title: Audun Aaberg

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El Segundo Power, LLC

By: NRG El Segundo Coersitoas oris. It's Authorized Agent

#### V. POLLUTION PREVENTION TEAM

The Regional Plants Manager, Audum Aaberg, has overall responsibility for compliance with the SWPPP. The Environmental Supervisor, Alex Sanchez, is responsible for conducting all monitoring program activities as well as assisting the Regional Plants Manager in the development and implementation of the SWPPP.

#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

#### VI. FACILITY DESCRIPTION AND SITE MAP

El Segundo Power, LLC is located at 301 Vista Del Mar Boulevard, El Segundo, County of Los Angeles, California, 90245 (the Station). The Station is located on a 39.49-acre site bounded on the west by the Pacific Ocean, on the north by Chevron U.S.A. property, on the east by Vista Del Mar Boulevard and on the south by 45th Street and residential neighborhoods.

Surface water drainage is collected by a system of drains and sumps that discharge through one of two Oil/Water Separators and into one of the two outfall tunnels to the Pacific Ocean. Surface water drainage is commingled in the outfall tunnels with the Station's in-plant wastewater and cooling water being discharge to the Pacific Ocean. The impact that the quality of storm water has on the overall quality of the water discharged from the Station will generally be insignificant. Nonetheless, this SWPPP is designed to specifically address the quality of the storm water component of the total discharge from the Station. The non-storm water components are addressed by the conditions of the Station's Site-Specific Permit.

#### A SITE MAP

Figure 1 provides a site layout showing the Station boundary, major structures and site features, facility drainage systems, and potential pollutant sources.

#### B. NON-INDUSTRIAL AREAS AND STORM WATER EASEMENT.

A steep, vegetation-covered slope is located along the castern portion of the Station that extends from Vista Del Mar Boulevard at 92 feet above sea level to the industrial portion of the Station at 20 feet above sea level. There are no industrial activities conducted in this area.

A storm water easement to the City of El Segundo is located along the non-industrial, southern portion of the Station. Storm water from Vista Del Mar Boulevard enters the Station from an underground pipeline located at the southeast boundary of the Station that discharges into a paved surface swale that conveys the storm water to its ultimate discharge to the Pacific Ocean on the southwest corner of the Station. This discharge is regulated under the NPDES permit for discharges from municipal separate storm sewers (MS4s) issued to Los Angeles County and the cities in Los Angeles County by the RWQCB. Since this storm water discharge does not come into contact with the Station's industrial processes nor is it under the control or the responsibility of the Station, and is separately permitted by the RWQCB, it is not addressed under this Storm Water Pollution Prevention Plan (SWPPP).

#### C. SITE DRAINAGE.

Station drainage includes both storm water and non-storm water that is collected and discharged to the Pacific Ocean through two concrete outfall turnels (Outfalls No. 001 and 002) that extend from each of the two intake structures located on the west side of the Station. The intake structures discharge the water approximately 2,000 feet offshore.

#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

The discharge, including storm water, is regulated under the Station's Site-Specific Permit. The Station's Site Specific Permit incorporates the requirements of the General Industrial Storm Water Pennit.

Two takin drainage systems consisting of catch basins, floor drains, pipelines and oil/water separators are provided at the Station. Pigure 1 illustrates the site layout, drainage systems and the location and routing of yard drains. A description of each drainage system is provided below.

#### 1. Storm Water Drainage.

In general, catch basins and drains from the asphalt-paved portions of the Station collect and convey storm water through an underground pipeline that drains to one of three in-ground, concrete storm water oil/water separators located adjacent to the Intake Structures. The cil/water separators discharge to the loutfall tunnels is controlled by manual flow control valves:

- a) Each oil/water separator is equipped with manual valves on the discharge pipe that may be closed in the event of a release within the Station that may impact the quality of the discharge.
- b) Each storm water oil/water separator also has a manual bypass valve that is normally chain-locked in the closed position but that may be opened during heavy rainstorms with approval of the Shift Supervisor.

The opening and closing of the flow control valves is regulated in Station Order EL O-103 "Locking of Critical Valves" and are recorded in both Shift Supervisor's and the Unit's 3 & 4 Centrol Room log.

#### In-Plant Wastewater Drainage.

In general, drains and catch basins located within each power block and adjacent concretepaved areas collect and convey low-volume wastewaters through a pipeline system that drains to an in-ground concrete sump and oil/water separator located at each power block. The Unit 1-2 oil/water separator is connected to the Unit 3-4 oil/water separator that in turn transfers the wastewater to the retention basin for further treatment, if necessary. Once deemed acceptable for discharge, the retention basin is drained through an underground pipeline to the Unit 3-4 intake structure where it is commingled with single-pass ocean cooling water and storm water prior to its discharge through the outfall turnel (Outfall No. 002) to the Pacific Ocean approximately 2,000 feet offshore

#### VII. LIST OF SIGNIFICANT MATERIALS

Significant materials that are continely present at the Station are identified in Appendix A. A complete list of hazardous materials is contained within the Unified Program Hazardous Business Plan.

# EL SECUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

#### VIII. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

The primary industrial activity at the Station is the generation of electric power using two steam boiler electric generating units located within a structure known as a Power Block. The primary fuel for the steam boiler units is natural gas mixed with a blend of refinery flare gas. Other industrial activities at the site that support the power generation process include material storage and handling, and maintenance and cleaning activities.

#### A. Material Storage and Handling Areas

#### Aboveground Storage Tank (AST) Systems

- a) Oil-containing tanks and equipment are used for supporting the electric generating units and are described in Station Procedure Id. 8-1, the Spill Prevention, Control, and Countermeasure (SPCC) Plan. The equipment is included in Appendix C and, although a text description is not included in this SWPPP, the information is incorporated by reference. The SPCC plan includes the quantity of oil, spill controls and secondary containment provided for each of these systems.
- b) Sodium hypochlorite is used to treat the circulating water system (seawater) that provides cooling to the generating units. Sodium hypochlorite is stored in a 650-gallon and a 3,700-gallon polyethylene tank located southwest and south of Unit 2, respectively. Each of the tanks is contained within a secondary containment structure designed to contain the total contents of the tank in the event of a release. The material is received by tanker truck from off-site sources.

#### Underground Storage Tank System.

Ammonium Hydroxide is used in the stack emission reduction processes for the Unit 3 & 4 steam boilers. Ammonium hydroxide is stored in an underground storage tank (UST) located along the main encance road as shown on Figure 1. The UST consists of a double-walled, fiberglass, 20,000-galion tank that is equipped with interstitial continuous leak detection and overfill protection. The piping system is stainless steel and is predominantly above ground. Pipeline extensions below ground consist of double-walled stainless steel piping with interstitial continuous leak detection. The delivery of ammonium hydroxide is by tanker truck from off-site sources.

#### Chemical Container Storage and Use

Chemicals stored and used at the Station are received by truck from off-site sources in bolk or in drams. The some drummed materials are unloaded at the Watchouse, or at the material storage site. All drummed materials are stored on secondary containments. Bulk materials are unloaded at the material storage tank. Hazardous waste is primarily stored in U.S. Department of Transportation (D.O.T.) drams within the hazardous waste accumulation area. An inventory of these materials is contained within the Station's Hazardous Materials and Hazardous Waste Management Plan.

#### EL SEGUNDO GENERATING STATION STORM WATER POLAUTION PREVENTION PLAN

PROCEDURE 8-12-A

#### 4. Maintenance and Cleaning Activities

The generating units (i.e., condenser tubes, air preheater, etc.) require mutine intermittent cleaning. The wastewater that is generated is known as chemical and non-chemical metal cleaning wastes that are collected in portable polyethylene storage tanks that are brought onsite, as needed, and placed within an engineered temporary secondary containment structure. The cleaning operations occur approximately once every five years per generating unit. The cleaning wastes are removed by tanker truck to an approved off-site location.

#### Sediment Generating Activities

Emission particulate matter from the generation units is strictly regulated by the Station's air quality permit and would not be expected to deposit any significant quantities of dust within the Station's boundaries. Non-routine maintenance and construction activities may intermittently generate dust and sediment as well as from the natural deterioration and corresion of the Station's surfaces and equipment.

#### 6. Significant Spills and Leaks

There has not been a spill or a leak of a reportable quantity (RQ) of oil or hazzrdous substance into the storm water discharge since the reporting date specified in the SWPPP regulation (April 17, 1994).

#### Non-Storm Water Discharges

Non-Storm Water Discharges Authorized under the Station's Site-Specific Permit

The Station discharges up to 607 million gallons per day (mgd) of water consisting printarily of once that cooling water. The non-storm water sources are identified and described in the Station's Site Specific Permit and includes the following:

- Once-through cooling water;
- Treated wastes from the retention basin;
- In-plant wastewater including Power Block floor drain wastes, boiler blowdown, retention basin wastewater, air preheater wastes, bydrostatic test waters, condenser sump water, and laboratory drains;
- Secondary treated sanitary waste from the Station's wastewater treatment unit.

#### b) Authorized Non-Storm Water Discharges Under the General Permit.

Authorized non-storm water discharges that are authorized by the General Pennit include the following:

- Fire hydrant flushing, potable water sources and landscape infigation;
- Atmospheric condensate (i.e. air conditioning)

#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

- Ground water
- Sea water intrusion.

#### Soi! Erosion.

The contour of the portions of the Station that are associated with industrial activities is predominantly flat and is paved with either asphalt or concrete. Non-industrial portions are predominantly landscaped to minimize the potential for soil crosson entering the Station's storm drain system.

#### IX. ASSESSMENT OF POTENTIAL POLLUTANT SOURCES

The Station's structural controls (i.e., diking, buildings, Pawer Blocks, drainage systems, etc.) prevent storm water from contacting pollutants in material storage areas and then being discharged directly. However, there is a potential for storm water to contact pollutants at the Station that are associated with the general grounds outside the areas that are controlled by diking and/or the in-plant wastewater drainage system (e.g., buildings, Power Blocks, and diked areas.). These areas are generally paved with asphalt or coment and are sloped to channel storm water to one or more drains of the storm water drainage system located throughout the Station.

- A. The most likely source of pollutants would be incidental contact with small pollutant releases associated with the movement of materials to and from areas that are provided specific structural controls (i.e., diked areas, buildings, Power Blocks, etc.). The most likely pollutants include oil, chemical cleaning wastes, sodium hypochlorite, and ammonium hydroxide, and metal constituents from deteriorated equipment and structures present at the Station. Additionally, sediments from the potential erasion of the landscaped areas and/or sand blown onto the facility from the adjoining beach may be a source of pollutants to storm water.
- B. The primary means of minimizing the petential pollutants from coming into contact with storm water is the implementation of BMPs discussed in Section VIII and summarized in Appendix C. In the event that these BMPs were to fail, a secondary means of control is provided by each of the drainage systems that are equipped with manual valves that can be completely shut-off to eliminate any discharges from the Station.

#### X. STORM WATER BEST MANAGEMENT PRACTICES

Existing storm water pollution prevention measures have been successful in addressing and eliminating likely sources, of pollutants in storm water discharge. Review of the wastewater discharge monitoring sample analyses and observations have not revealed any pollutant problems. Therefore, no pollutants are expected to be present in storm water discharge in significant quantities.

#### A. Non-Structural BMPs

#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

- Good Housekeeping: Operating personnel have been assigned housekeeping locations and are
  responsible for assuring that these areas are kept clean. Clean up is a component of every
  maintenance project and an inspection is made at the completion of each project to assure that
  the area is clean.
- Preventive Maintenance: Inspections of material storage and handling areas, retention basins, dualnage sumps, and chemical/oil handling and storage areas are performed daily. Maintenance of all storm water conveyance devices is performed as needed based upon the results of the daily inspections.
- 5. Spill Response. Areas containing significant materials (i.e., ASTs, USTs, container storage, and transformers) are secondarily contained as required by the Station's SPCC plan. Station personnel clean up minor spills promptly. Spill clean-up materials are meintained at various locations throughout the Station for this purpose. The Station maintains a current list of organizations that can supply manpower and materials required for a response to a major spill.
- 4. Material Handling and Storage: A checklist is used for the unleading of all bulk hazardous liquids at the Station. The checklist addresses overfill provention, area drainage concerns, and proper connecting and disconnecting of delivery tankers.
- 5. Employee Training: Periodic formal and informal training sessions are held to instruct personnel in the proper operation and maintenance of equipment to prevent the discharge of materials into storm water discharges. Operator training on spill prevention, the SPCC plan, and the SWPPP is conducted as required. Known spill events or failures and precautionary measures are reviewed and discussed. All station personnel who, in the normal course of their job duties, are involved in the operation, maintenance, sampling, engineering or supervision of the Station receive a mix of classroom and on-the-job training, which includes recognition of upset conditions, notification and response to material spills, hazard communication and hazardous material handling. This training is designed to cusure that each employed understands his tole in the operation and maintenance of the Station.
- Waste Handling/Recycling: Hazardous wastes are stored in U.S. DOT containers in accordance with hazardous waste generator requirements. The wastes are transported off-site to a DTSCpermitted dispusal or recycling facility within 90 days of generation.
- 7. Record Keeping and Internal Reporting: Daily inspections of facility grounds, equipment, and material storage areas are conducted and recorded by operating personnel. Any irregularities observed are noted on the inspection form and reported to the on-duty Shift Supervisor for immediate action. The daily inspection reports are maintained for five years.
- 8 Brosion Control and Site Stabilization: Erosion and sediment control methods including berms, culverts, and drains are utilized to direct storm water to containment areas and prevent crosion.

# EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

- Inspections: As daily inspections are conducted, maintenance work orders are issued for all
  deficiencies and leaks. All inspections and records of corrective actions are maintained for a
  period of five years. Additionally, a visual inspection is conducted and recorded each quarter
  to observe all drainage areas within the Station for the presence of unauthorized non-storm
  water discharges
- 10. Environmental Assurance: The Regional Plants Manager has overall responsibility for implementation of the provisions of the SWPPP. The Environmental Supervisor is responsible for conducting all monitoring program activities.

#### Structural BMPs

- Existing Overhead Coverage: Overhead protection from storm water is provided in the
  chemical and oil container storage areas inside the Units Power Block structure and the
  warehouse. The hazardous waste accumulation area has an overhead cover, concrete
  foundation, and a secondary containment concrete curb.
- 2. In-Plant Drainage System and Retention Basin: In general, drains and catch basins located within each power block and adjacent concrete-paved areas discharge to a pipeline system and an mil/water separator located southwest of each power block. The Unit 1-2 oil/water separator is connected to the Unit 3-4 oil/water separator that in turn transfers the wastewater to the retention basin. Once deemed acceptable for discharge, the retention basin may be drained by manually opening the flow control valve and releasing the water through an underground pipeline to the Unit 3-4 outfall tunnel.

Each in-plant waste oil/water separator is equipped with a manual valve that may be closed in the event of an oil or hazardous materials spill to prevent contamination of the retention basin. The surface of the retention basin is routinely skimmed for oil that is collected in the Oil Separator Fank. The retention basin drain is manually opened after verifying the effluent will conform to established water quality requirements. Waste oil from the sumps, retention basin and retention basin oil skimmer is collected in an aboveground storage tank located adjacent to the getention basin. A permitted commercial hazardous waste contractor removes the waste oil from the property as needed.

- Storm Water Drainage System: Surface water drainage from the industrial portions of the Station are controlled by the storm water drainage system.
  - a) The Station's catch basins and drains from the asphalt-paved portions of the Station discharge to an underground pipeline that drains to one of three in-ground oil/water separators that in term discharge to the outfall tennels. Two of the oil/water separators are located adjacent to the north and south sides of the Unit 1-2 intake Structure while the third is located south of the Unit 3-4 Jarake Structure.
  - b) Each storm water oil/water separator is equipped with a manual valve on its discharge outlet that may be closed in the event of an oil or hazardous materials spill to prevent its discharge to the Pacific Ocean.

#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

- c) Each storm water oil/water separator also has a manual bypass valve that is normally chain-locked in the closed position but that may be opened during heavy rainstorms with approval of the Shift Supervisor. Hack oil/water separator has a four inch regulated outlet valve, which operates at 40 gallons per minute (gpm) and drains directly to the station outfall turnel. In the event of heavy rains, the catch basins can be bypassed to allow adequate drainage and prevent yard flexibing.
- 4. Existing Control Devices: Identified potential pollutant sources are either sheltered from storm water or are surrounded by secondary containment which prevents storm water run-off from coming into contact with the pollutant source. There are sufficient storm water drains, which are interconnected by underground piping, to minimize the surface run-off exposure to potential pollutant sources.
- Existing Secondary Containment Structures: Bulk oil and bulk hazardous substance tanks are surrounded by secondary containment structures. Water that is accumulated within the containment area is generally insignificant and is allowed to evaporate
- C. Newly Installed BMPs. Modifications that have taken place since 2002 are listed below. These changes have been incorporated in this updated SPCC.
  - Units 1 and 2 have been retired from service. Oil has been drained from the out-of-service
    equipment, including the Fuel Oil Delivery System pipeline, the Lube-Oil Storage Tanks and
    pipeline, and transformers associated with Units 1-2 (except a reservoir auxiliary transformer
    which remains in service).
  - The manual control valves were installed on the storm water Oil/Water Separators.
  - Additional asphalt berms were installed along the western and northern boundaries of the Station to minimize ran-off and nan-on respectively.
  - 4. An in-service inspection of the Units 3-4 Turbine Lube Oil System was performed.
  - Inspections of valves and controls associated with the lube oil delivery system by API-trained personnel.
- D. <u>Planned BMPs.</u> Planned modifications to the Station include the following:
  - No later than February 18, 2005, the out-of-service equipment that has been drained and secured will be closed for SPCC purposes by cleaning the system to remove the remaining oil residues and posting signs indicating the effective date that they have been closed.
  - A new Turbine Lube Oil conditioner unit may be installed in the Unit 3-4 power block.
  - No later than July 1, 2004, a permanent secondary containment for the truck unloading area at Units 3 & 4 will be constructed to contain the volume of the largest delivery truck (5.500 gallons) plus 10 percent.
  - 4. No later than July 1, 2004, secondary containment will be installed around the six boiler circulating pump transformers located in the Unit 3-4 power block to contains the volume of the largest transformer plus 10 percent.

#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

5. No later than February 28, 2005, an API-qualified inspector will identify the necessary testing, maintenance and/or inspection practices and the schedule for implementing the recommendations for the Unit 3-4 Turbine Labe Oil System and the Oil Separator Tank (adjacent to the retention hasin).

#### XI. STORM WATER MONITORING PROGRAM

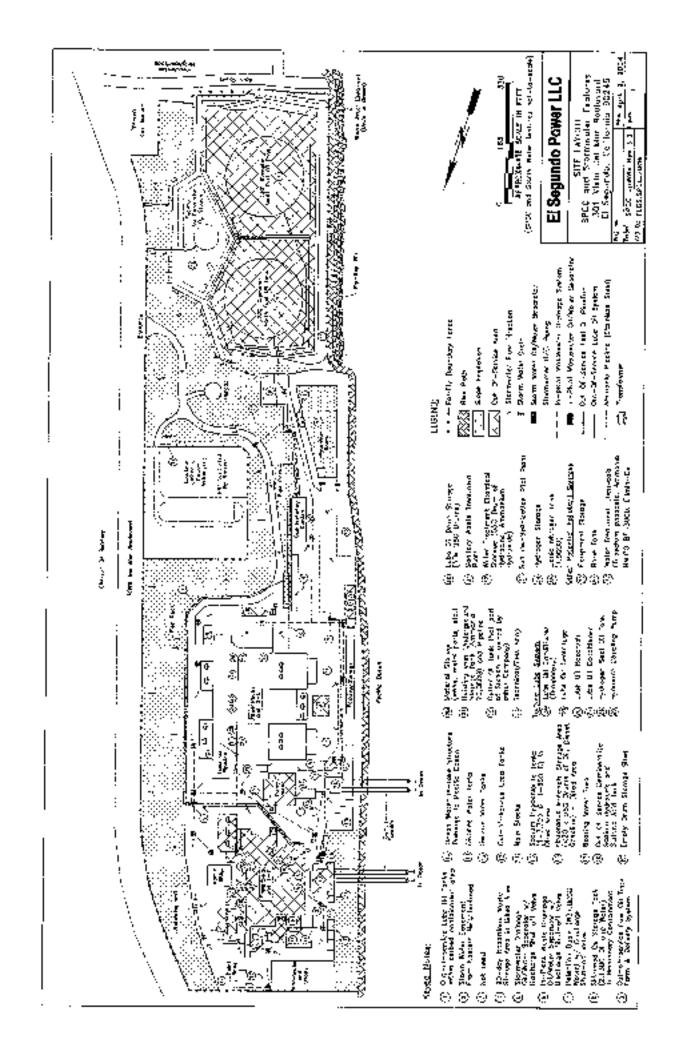
The Station will perform visual inspections of the Station and collect storm water samples during storm events as described in the Storm Water Monitoring Program. The SWPPP shall be revised, as appropriate, and the revisions implemented within 90 days of the evaluation.

EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

#### APPENDIX A

SITE LAYOUT SHOWING SPCC AND STORMWATER FEATURES



#### EL SEGUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

PROCEDURE 8-12-A

#### APPENDIX B LIST OF SIGNIFICANT MATERIALS (1), (2)

Turcine Luce Oil	Tubine Lube System and Drums
Natural Gas	Piperine
Mineral Oil	Transformers
Ammonium hydroxide	Underground Storage Tanx
Metal Cleaning Waste	Portable Containers
15% Sodium hypochlorite solution	Two Aboveground Tanks
Gasoline and Diesel Fuel	Containers
Water freatment chemicals (see um pitrate, a Xaline-sclutions, etc.)	Containers and Fortable Totes
Compressed gas cylinders of acetylene, oxygen, helium, argon, and hydrogen	Compressed Gas Cylinders
Facility maintenance cleaners, lupricents, and paints	Contamers
Out-Of Service Fuel Oll No. 5 Tank and Delivery System	Tank Ferm and Pipeline System
Sand, salt and other segiment blown onto the Station from the adjoining beach and ocean;	Ouldoor surfaces
Sediment and/or rust from deteriorating structures and equipment.	Outdoor surfaces
Sediment from the potential erosion of andscaped areas and run- on from surrounding properties;	Outdoor surfaces

#### Table Notes:

- (1) For a complete listing of nazardous materiels, see the Unified Program Hazardous Materials Business Plan;
- (2) The Sile Layout Showing SPCD and Stormwater Features identifies the location of the significant materials.

# PROCEDURE 8-12A

# STORM WATER POLLETION PREVENTION PLAN EL SEGUNDO GENERATING STATION

# APPENDIX C

# CORRESPONDING REST MANAGEMENT PRACTICES SUMMARY \*\* ASSESSMENT OF POTENTIAL POLEUFION SOURCES AND

# \*\* <u>Table Notes:</u>

- (3) The Sile Layrint Showing SEGD and Starmwaler Features identifies the location of the significant materials (2) ISMPs commonite all polydran sources are not dentitied in the table below and include the following:

  - Security and looking of critical valves; Sood housexeeping and preventalive mainletrance of facility, equipment and shootures;
    - Rouling inspections;
- Promptioean up of material spills;
- Employee Iraining and woller procedures to minimize material ep. 1s. Storm water Instruction and innuitoring program.

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* Daily inspections	<ul> <li>Routine housekeeping, preventative and repair maintenance</li> <li>Routine removal of area removed to and means.</li> </ul>	landscape mainleastce	Side paying and drainage aystems	Routine hursekeeping	Routine riteaning of gas (wishinges to remove accumulated dehris (C) in Sween)	■ Dry cleaning methods only	<ul> <li>Dusf curitainment controls during dean incided. plastic strengths containing.</li> </ul>	cullection and backaging of weste, etc.)	<ul> <li>I horough clean-up (e.g., sweeping, varaaming, removal of Duct Sweep, etc.)</li> </ul>	<ul> <li>Landschow contractor prohibited from using well methods for grounds cleaning.</li> </ul>	<ul> <li>Landscape confluctor required to collect drass countries also</li> </ul>	Janilona: contractor regulad to police all wash, tinse limids	<ul> <li>Power block commole foundation and in-plant drainage system/referding basic processes.</li> </ul>	contair ment from uncontrolled discharge	<ul> <li>Truck lustding/trabecting area provided with secondary containment</li> </ul>	<ul> <li>Oil oresoure alarma end automatic shut-off</li> </ul>	Uniterains chain-locked in closed position	Dary inspections	<ul> <li>Altended as vary Puck unloading Station Order</li> </ul>
Metal ≥"d paint corresion	partisulates	Sediments			Metal and combustion	: padiculales			  -	Wash waters	Grass clippings, debris ,		Turbine Jube Oil						
Dater pusion of site	structures and equipment	Erosion and	sediment han offsile		Cleaning of squers					Mainfonance			- Luba Oil Sicrage	Taily leak or overfill					
General												  -	Purbue Lube	റുള്ളവ					

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# STORM WATER POLLUTION PREVENTION PLAN EL SEGUNDO GENERATING STATION

PROCEDURE 8-12A

Igniness testing  Power black concrete fourcation and in plant drainage system/referding provides containment from uncondrolled discharge  U.S. DCT on ms  Configuration hallets or exists  Power block floor drains	Tanks principalities  Tanks principal with secondary containment pallets  Digitage system/retention basin provides containment fruis incontrated lifetrarge.  Daily parentings	Metal roof  Concrete Rundation and purbing  D.C. I. convisions  Daily inspersions	2.5 DOT drums Currente foundation and secondary exitainment curies Containment enclosures Deliving the exclusions	chipsos and surking Prigh-lemperature plants on their legislations  Daily inspections	Contained with a waked endosture  Float evel indicator  Divertibly pipes	Secondary containment walls	Portable totes under that 3 boiler. Storage in enclosed building on western portion of the Station.	Transporary engineered containment alrupture
Turbine - 124 Oil	Sodium Hyoschlorite	Oits Contaminated debris	r Oils Water trealment chemicals	Mineralci	Oily water	Hypoch and solution	Water froatment chemicals	Metal cleaning westes
Oii Drum Slovage in Unii 3-4 Auxiliary Bay	Water Treatment Chemical Tank or Container leak or overfül	Contoir er luaks	Container loaks	Leaks .	Luaks, overills	Leaks, overfils	Lenks, cyenills	Loake, overfills
Power Biooks Contracts	 	Hazerdous Weste Storege Area	Havarcous Maleria s Morage Area	Fransformers Transformers	Referrion Bas it Oil Separator Isnik	Hydxchrorite Tatiko x 2	Water Treatment Chemicals	Wetal Cleaning Wastes

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# PROCEDURE 8-12A

# EL SECUNDO GENERATING STATION STORM WATER POLLUTION PREVENTION PLAN

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#### NRG EL SEGUNDO OPERATIONS INC.

# EL SEGUNDO GENERATING STATION PROPERTY POLICITION PREVENTION PLAN

PROCEDURE 8-12A

#### APPENDIX D

STORM WATER MONITORING PLAN

#### J. INTRODUCTION

This Sterm Water Monitoring Program has been developed to comply with the conditions of the California State Water Resources Control Board Water Quality Order No. 97-03-DWQ General Permit for Discharges of Storm Water Associated with Indestrial Activities (the General Permit). This document is designed to be used in conjunction with the Storm Water Pollution Prevention Plan, Station Procedure 8-12 A.

- A. Results from this monitoring program shall be reported to the State Water Resources. Control Board by July 1 of every year as part of the Annual Report.
- B. Monttoring includes both storm water sampling and visual inspections of the facility as described in this procedure.
- C. The State "General Perroit" requires that facilities subject to Federal Storm Water Effluent Limitation, Guidelines (NPDES guidelines) shall analyze for applicable pollutants as specified in 40 CFR 423 (Subchapter N).

#### II. IMPLEMENTATION

- A. Results from this monitoring program shall be documented and reported to the State Water Resources Control Board (SWRCB) by July 1 of every year as part of the Annual Report using the most current forms from the SWRCB.
- B. Monitoring includes visual inspections of the facility as described in this procedure.
- C. The State "General Permit" requires that facilities subject to Federal Storm Water Effluent Limitation Guidelines (NPDES guidelines) shall analyze for applicable pollutants as specified in 40 CFR 423 (Subchapter N).

#### III. INSPECTIONS

- A. <u>Quarterly Dry Inspections</u>: Visual inspections of the outside grounds of the Station shall be performed at least once each quarter during dry conditions and shall document the presence of any of the following conditions:
  - Any non-storm water discharges in the storm water drainage system (i.e., asphalt paving, storm drains, etc.) and clarifiers for the presence of any discoloration, stains, odors, floating materials, oil sheen, etc. Note: there are no "unauthorized" non-storm water discharges at the Station; non-storm water discharges are authorized by a Site-Specific Permit as discussed in the SWPPP.
  - Staining, discoleration, and other signs of material releases on equipment, structures and/or pavement within the storm water drainage areas.

## EL SEGUNDO GENERATING STATION STORM WATER MONITORING PROGRAM

- B. Monthly Storm Event Inspections: Visual inspections of the storm water accumulated at the Station (i.e., drainage areas and yard drains) shall be performed during one storm event per month during the wet season (i.e., October 1 through May 30). Visual inspections are only required if the event is preceded by at least three (3) working days without a storm water discharge. Inspections shall document the presence of any discoloration, stains, odors, floating materials, oil sheen, turbidity, or other signs of pollutants.
- C. <u>Draining</u> of Diked <u>Storm Water</u>: Visual inspections of storm water shall be performed prior to releasing any storm water from diked areas. Inspections shall document the presence of any discoloration, stains, odors, floating materials, oil sheen, turbidity, or other signs of pollutants. The drain valves may be opened to release accumulated storm water to the storm water drain system with approval of the Shift Supervisor.
- D. <u>Annual Comprehensive Site Compliance Evaluation:</u> An annual evaluation of the sterm water program shall be performed of the overall SWPPP effectiveness. The evaluation shall be documented and include the date, name of personnel involved, noted concerns, and recommendations for improvement. This evaluation shall include the following:
  - Review of inspection and sampling records performed under this Storm Water Monitoring Plan;
  - Review and evaluation of potential pollutant sources for evidence of, or the potential for, pollutants entering the storm water draitage system;
  - 3. Review and evaluation of the BMPs to determine whether the BMPs are adequate, properly implemented and maintained, or whether additional BMPs are needed. This shall include a visual inspection of spill response and clean-up equipment and supplies, housekeeping, employee training records, manual valves on the sterm water clarifiers, and other signs of BMP effectiveness.

#### IV. STORM WATER SAMPLING

This section outlines the routine storm water sampling requirements. The Station has previously collected and tested two storm water samples for the priority pollutants identified in Appendix A to Part 423 of the Code of Federal Regulations. Based on the concentrations detected, the estimated volume of storm water and mass of each regulated pollutant has been determined

## Storm Water Sampling Prequency;

Sampling is required of storm water discharges that occur during scheduled facility operating hours and that are preceded by at least three (3) working days without a storm water discharge. In addition, sampling is not required due to dangerous weather conditions (e.g., flooding, electrical storm, etc.). A rotal of two storm events each wet season must be sampled.

# EL SEGUNDO GENERATING STATION STORM WATER MONITORING PROGRAM

Sampling shall be performed during the first hour of the first storm event of the wet season (i.e., October 1 through May 30) that a discharge is visibly evident. If samples are not collected during the above time, the reason that no samples were collected shall be recorded on the appropriate SWRCB Annual Report forms.

## Storm Water Sampling Locations.

After inspecting the Station for unpermitted storm water discharges and reviewing available NPDES permit information, preferred sampling locations that adequately represent storm water prior to its commingling with other non-storm water sources have been identified. In conformance with these recommendations, storm water sampling shall be performed at the following locations:

The easement drain at the southwest portion of the Station.

## C. Storm Water Sampling Procedures;

Attachment I identifies specific procedures for collection of samples and pH analysis to be performed by facility personnel. These procedures are included in this monitoring program as Attachment I (Sampling of Storm Water Runoff).

### D. Storm Water Adalysis:

- 1. Storm water samples shall be tested by a laboratory according for the required tests by the Department of Health Services (DHS) Environmental Laboratory Accreditation Program (ELAP).
- 2 Sampling, preservation and testing shall be in accordance with "Standard Methods for the Examination of Water and Wastewater" (American Public Health Association.
- Storm water samples shall be tested according to the test procedures under 40 CFR Part 136 for the following parameters:
  - i) Total suspended solids (TSS);
  - ii) pH:
  - iii) Specific conductance;
  - iv) Total organic carbon (TOC);
  - v) Oil and grease;
  - vi) Total iron.

#### V. RECORD KEEPING

A. A record of the annual inspection must include the date of the inspection, the individual(s) who performed the inspection, and the observations of the inspection.

## EL SEGUNDO GENERATENC STATION STORM WATER MONITORING PROGRAM

- B. A record of the dry season observations must include a description of the method used (visual, dye test, etc.), date of testing, locations observed, and observation or test results.
- C. Monthly well season visual observations shall include the date of the inspection, the individual(s) who performed the inspection, and the observations of the inspection.
- D. Storm water sampling records shall include: 1) the date, time and place of sampling: 2) the date and time of analysis; 3) the individual who performed the analysis 4) the analytical techniques or methods used and the results of such analysis; and 5) quality assurance/quality control results.
- E. The facility shall submit an annual report by July 1 of each year to the Executive Officer of the RWQCB responsible for the area in which the facility is located.
- F. Records of all storm water monitoring information and copies of all reports required by the General Permit shall be retained for a period of at least five years from the date of the sample, observation, measurement, or report.

#### VI. MANAGEMENT APPROVAL

Name:

Audun Aaberg

Tide:

Regional Plants Manager

Signature:

8y: NRG El Segundo Costations

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it's Authorized Agent

Section 8.0 Toxicity Evaluation Report



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

July 23, 2001

Mr. Alexander Sanchez NRG 301 Vista Del Mar Blvd, El Segundo, CA 90245

Dear Mr. Sanchez:

We are pleased to present the following Toxicity Reduction Evaluation (TRE) workplan for the Long Beach Generating Station. This plan was prepared in accordance with requirements set forth in your NPDES Permit No. CA0001171.

Sincerely,

Michael J. Wachuzak

Assistant Laboratory Director



TOXICITY TESTING . OCEANOGRAPHIC RESEARCH

July 23, 2001

Mr. Alex Sanchez NRG 301 Vista Del Mar Blvd. El Segundo, CA 90245

Dear Mr. Sanchez:

Enclosed, please find one (1) original and three (3) copies of your Toxicity Reduction Evaluation (TRE) Workplan that is to be submitted to the Regional Water Board within 90 days of the effective date of your discharge permit.

Please feel free to phone me if you have any questions or need additional information.

Yours very truly,

Michael J. Machuzak

Assistant Laboratory Director



TOXICITY TESTING . OCEANOGRAPHIC RESEARCH

TOXIC((Y REDUCTION
EVALUATION WORKPLAN
FOR
LONG BEACH GENERATION LLC
(Long Beach Generating Station)
Order No : 01-XXX
NPDES Permit No.: CA0001171

Prepared: July 23, 2001

## TABLE OF CONTENTS

ι	INTRODUCTION
2.	ACCELERATED TESTING/TOXICITY VERIFICATION
3.	PHYSICAL/ CHEMICAL ANALYSIS OF SAMPLES
4.	DATA REVIEW
5.	SOURCE IDENTIFICATION
6.	THE METHOD SELECTION
7.	LITERATURE SEARCH
8.	TOXICITY IDENTIFICATION
9	VERIFICATION
10.	TRE/ FOLLOW UP MONITORING
u	REFERENCES

## 1. INTRODUCTION

If Toxicity is detected, accelerated toxicity testing will be initiated as indicated in the orders. Further, a Toxicity Identification/Toxicity Reduction Evaluation (TIE/TRE) will be implemented immediately, if any three out of the initial tests and six additional tests results exceed 4.2 TUo This workplan will be followed to initiate a TIE/TRE within 15 days of exceedance. Consultations, inspections, and scheduled meetings with regulators will occur as necessary to facilitate the TRE/TIE process and again after the final report is submitted. The target time frame to complete the TRE/TIE study will be one year.

Monthly progress reports, quarterly data summaries, and a final report will be submitted to the Regional Water Quality Control Board, and the Environmental Protection Agency (EPA), and other parties as required. The monthly progress reports will summarize the work completed during the previous month as well as the anticipated schedule of work for the following month. Quarterly data summaries will include the data and results for the previous quarter as well as a tentative schedule of testing to occur during the next quarter. The final report will include the following: a summary of the entire TRE/TIB including all data and results; an identification of the source(s) of effluent toxicity; an evaluation of options for treating and/or preventing the toxicity; and corrective actions taken with a follow up study plan to evaluate any changes that are implemented.

The following sections describe the TRE/TIE workplan to be followed in the event of an NPDES permit exceedance. It is anticipated that these procedures will follow the flow chart as indicated in Table 1-1 and time line as indicated in Table 1-2.

In the event a Toxicity Identification Evaluation (TIE) is necessary, Aquatic Bioassay and Consulting, Inc. in Ventura, California, ELAP certification # 1907, will conduct the testing.

## 2. ACCELERATED TESTING/TOXICITY VERIFICATION

An accelerated test schedule in accordance with the NPDES Permit will begin immediately with the first permit exceedance. This accelerated test schedule will continue for a minimum of six additional tests. If a second permit limit exceedance occurs during the accelerated testing period then the TIE/TRE will continue in accordance with this workplan without completing the accelerated test schedule. If within six tests there are no permit limits exceeded then the TIE mode ends and normal testing is resumed. An attempt is made at this time to correlate the toxicity to a specific event. If an event is suspected additional testing will be scheduled to verify the toxicity.

TABLE 1-1, TOXICITY REDUCTION EVALUATION (TRE) FLOW CHART

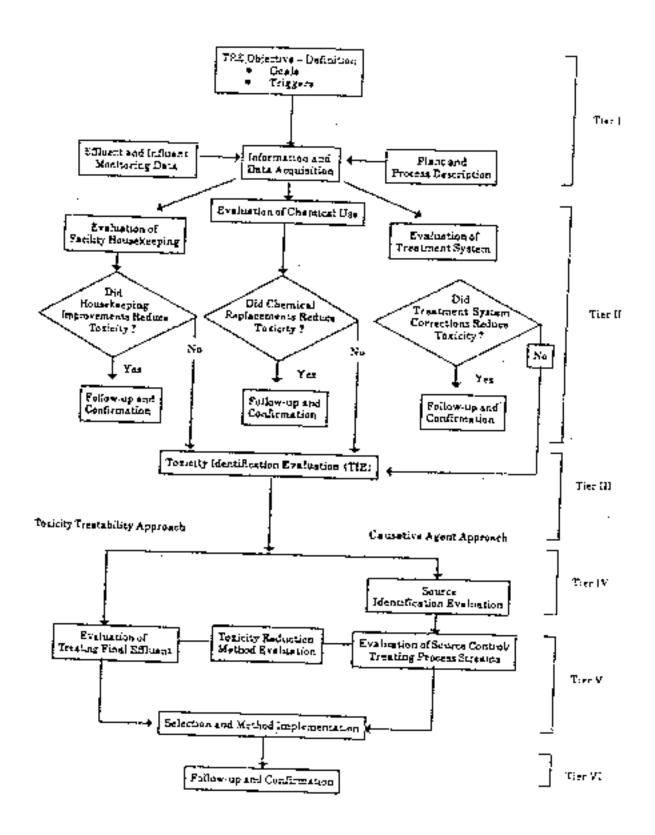
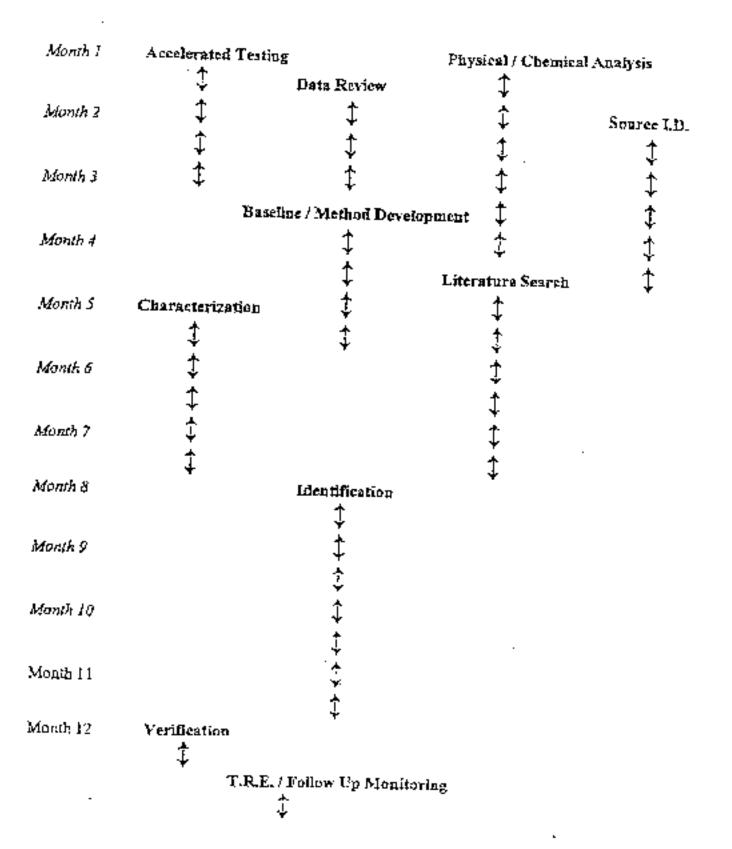


TABLE 1-2 EXAMPLE OF A TIE/TRE SCHEDULE



### 3. PRYSICAL/CHEMICAL ANALYSIS OF SAMPLES

Throughout the accelerated test period influent and effluent samples will be archived so that if toxicity is detected the sample can be examined chemically and physically to aid in the identification of the source of the toxicity. Initial TIE manipulations of the sample will determine the filterability, degradability, volatility, and solubility of the toxicant

#### 4. DATA REVIEW

The following sources of information will be investigated to aid in the determination of any possible sources of effluent toxicity:

- 1) The accelerated testing will determine if the toxicity is persistent. Bioassays conducted on other test species and the results from testing on these other species will be examined to determine if the toxicity is species dependent. In addition, data from previous bioassay reports will be reviewed to identify trends in the toxicity of the effluent.
- Chemistry data will be reviewed and compared to bioassay results for the current month
  as well as for the previous year.
- 3) Precipitation, plant effluent flow, influent flow, time, day, weather and season will be investigated for any correlation with the observed toxicity patterns or events.
- 4) Activity and treatment processes will be examined for events that may correlate with any observed effluent toxicity. Construction activities, equipment failure, maintenance and cleaning schedules may all influence effluent quality. Plant chemical usage will be evaluated.

### 5. SOURCE INDENTIFICATION

The effluent toxicity may be traced to a source by sampling at various locations within the facility. Concurrent influent and effluent testing will determine if the observed effluent toxicity is increased within the plant. Comparisons of the toxicity before and after processes will further track the toxicity source.

#### 6. THE METHOD SELECTION

TTE procedures outlined in, Marine Toxicity Identification Evaluation (TIE), Phase I Guidance Document, EPA/600/R-96/054, September 1996, will be followed. The TTE procedures require physical and chemical effluent manipulations which may selectively reduce or remove the toxicity of individual constituents or classes of constituents. The various chemicals and teagents used in the TTE procedures may themselves cause toxicity in higher concentrations, depending on the test species. A preliminary evaluation of the test organism's sensitivity to these manipulations may be required.

#### 7. LITERATURE SEARCH

A literature search for all available aquatic toxicity data on effluent constituents will help determine which toxicants to target.

## 8. TOXICITY IDENTIFICATION

The target toxicants of the investigation will be revised throughout the TIE as more information and test results become available. Some toxicants may be targeted because they are relatively easy to eliminate. TIE protocols are often a process of elimination of toxicant sources.

Testing will continue until the likely toxicants are identified. It is not necessary to find all of the potential toxicants in the offluent but only those that have prevented the offluent from easily meeting the NPDES permit limits. Identifying toxicants that can be easily removed or controlled will facilitate the TRE.

During the TIE investigation period, standard test protocol requirements are not always required due to the fact that the data obtained are informative and not definitive. For example, replicates, sample concentrations, test volumes and test periods may be adjusted to expedite testing. When causing or contributing to any observed toxicity, controls (dilution water not manipulated), spikes (constituent removed from sample then added back in), and blanks (dilution water manipulated) will be used when appropriate. The toxicant targets and TIE test methods will be revised as necessary throughout the identification period.

#### 9. VERIFICATION

Tentative identifications of effluent toxicity source(s) will be confirmed by tests following protocol guidelines. The verification will use the original test species that exceeded the NPDES permit limit with all controls and replicates for the full test period. This verification testing consists of an unmanipulated effluent sample exhibiting toxicity tested concurrently with a manipulated sample that meets the NPDES permit limit. The toxicity observed in the effluent sample does not need to be eliminated completely, but the manipulations must significantly reduce toxicity to allow the effluent to achieve permit compliance. Verification of the toxicant(s) will require at least two sets of tests indicating the toxicity reduction.

#### 10. TRE/FOLLOW UP MONITORING

If the identified source of toxicity is not environmentally detrimental then, after consultation, a TRE may not be required.

If a TRE is required, the constituent(s) identified as the source of effluent toxicity will be investigated to identify methods that may remove or reduce it at the source. If this is not possible, additional treatment procedures may be necessary to remove or reduce the toxicity. The appropriate administration, engineers, operators, and chemists will be involved in investigating, selecting, and designing the best methods for toxicity reduction

The toxicity will be monitored to confirm the reduction of toxicity to ensure that the toxicant was adequately removed. The regular monitoring and reporting schedule as specified in the NPDES permit will resume after completion of the TTF/TRE.

## 11. REFERENCES

Generalized Methodology for Conducting Industrial Toxicity Reduction Evaluations (TREs), EPA 600/2-88/070, April 1989.

Marine Toxicity Identification Evaluation (TIE), Phase I Guidance Document, FPA/600/R<sub>2</sub> 96/054, September 1996.

# Section 9.0 Regional Water Quality Control Board Correspondence

## EL SEGUNDO POWER II LLC

750 B STREET SUITE 2740 SAN DIEGO, CA 92101 (619) 615-6727 FAX (619) 615-7663

December 13, 2000

Ms. Deborah J. Smith
Assistant Executive Officer
California Regional Water Quality Control Board
Los Angeles Region
320 W. 4th Street, Suite 200
Los Angeles, California 90013

RE: Request for Determination of Existing Discharge under the California Thermal Plan

Dear Ms. Smith:

In our meeting on October 26, we presented an overview of the El Segundo Power Redevelopment Project (ESPR Project) to you and members of your staff. In this presentation, we described the proposed replacement of the existing generating units and the continued unmodified use of the once-through seawater cooling system. In addition, we expressed our interest in maintaining the "existing" classification of the thermal discharge for the ESPR Project under the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuaries of California (California Thermal Plan).

At the conclusion of this meeting, you requested a letter describing the ESPR Project and why the Project qualifies as an "existing" discharge under the California Thermal Plan and requesting such a determination by the Los Angeles Regional Water Quality Control Board (Regional Board). This letter responds to that request.

## Summary

We believe that the continued classification of the once-though cooling water discharges from the ESPR Project as an "existing" discharge under the California Thermal Plan is justified based on the following considerations:

- The proposed modifications to the generating units will not affect the maximum temperature or volume of the thermal discharge.
- The ESPR Project does not constitute a "material change" as defined in Cal. Code Regs., Title 23, §2210.

increase in the amount of power that can be generated with the same amount of oncethrough cooling water. This tremendous increase in the efficiency of use of water resources reflects a fundamental benefit of the ESPR Project.

## Thermal Plan Requirements

The California Thermal Plan is a state policy document regulating the discharge of thermal wastes to receiving waters and was developed by the State Water Resources Control Board (State Board). The definitions of "existing" and "new" discharges are key to the application of the Thermal Plan.

Paul Lilibo (916/657-1031) is the lead State Board staff responsible for the administration of the Thermal Plan. The general guidance provided by Mr. Lilibo is that Regional Boards have considerable discretion in the interpretation and administration of the California Thermal Plan. This includes the classification of the once-through cooling water discharge from the ESPR Project as "new" or "existing". The definitions as provided in the California Thermal Plan are:

Existing Discharge - Any discharge (a) which is presently taking place, or (b) for which waste discharge requirements have been established and construction commenced prior to the adoption of the Thermal Plan, or (c) any material change in an existing discharge for which construction has commenced prior to the adoption of the Thermal Plan (1975). Commencement of construction shall include execution of a contract for onsite construction or for major equipment which is related to the condenser cooling system.

New Discharge – Any discharge (a) which is not presently taking place unless waste discharge requirements have been established prior to adoption of the Thermal Plan or (b) which is presently taking place and for which a material change is proposed but no construction was initiated prior to adoption of the Thermal Plan.

Thus, the determination of the classification of the once-though cooling water discharge as "new" or "existing" will be based on whether the ESPR Project constitutes a "material change" to the discharge. Whether or not a project constitutes a material change or not is primarily determined by the Regional Water Quality Control Board. As we discuss below, we believe that there will not be a "material change," as the ESPR Project will maintain and utilize the once-through cooling water discharge as currently permitted.

new process or product and will not change the character of the waste. Cooling water will continue to be discharged.

- (b) A significant change in the disposal method (e.g., change from land disposal to a direct discharge to water), or a change in the method of treatment which would significantly alter the character of the waste. The disposal method will remain the same – cooling discharge through Outfall No. 001 to Santa Monica Bay. There is no "treatment" of the thermal discharge.
- (c) A significant change in the disposal area, e.g., moving the discharge to another drainage area, to a different water body, or to a disposal area significantly removed from the original area potentially causing different water quality or nuisance problems. Again, the disposal area will remain the same as it has since 1955 – Outfall No. 001 to Santa Monica Bay.
- (d) An increase in flow beyond that specified in the waste discharge requirements. The proposed flow will remain the same – the facility is designed to operate within the existing flow and the same pumps will continue to be utilized. Thus, this criterion does not apply to the ESPR Project.
- (e) An increase in area or depth to be used for solid waste disposal beyond that specified in the waste discharge requirements. This does not apply to the ESPR Project.

# The Proposed Modifications to the Generating Units will not Affect Volume or Thermal Loading of the Thermal Discharge

As noted in the description of the project presented above, the ESPR Project will continue the use of the existing once-through seawater cooling system utilizing the same intake and outfall structures and the circulating pumps that have been utilized by Units 1 and 2 of ESGS since 1955. Therefore, under peak operating conditions during the summer months, once-through cooling water needs will not exceed the existing maximum volume of 144,000 gallons per minute or 207 gpd. Moreover, the ESPR Project is designed to limit the temperature difference across the intake and outfall to 20°F and to decrease the maximum thermal loading from 46,448 MMBtu/day to 33,298 MMBtu/day. This will ensure that the thermal discharge characteristics will remain the same.

The Existing Discharge Does Not Impact the Beneficial Uses of Santa Monica Bay

for keeping the consumptive use of fresh water to a minimum. The first of the principles of the Policy describes this preference:

It is the Board's position that from a water quantity and quality standpoint the source of powerplant cooling water should come from the following sources in this order of priority depending on site specifics such as environmental, technical and economic feasibility consideration: (1) wastewater being discharged to the ocean, (2) ocean, (3) brackish water from natural sources or irrigation return flow, (4) inland wastewaters of low TDS, and (5) other inland waters.

Statement three of the Basis of Policy justifies this preference as follows:

Although many of the impacts of coastal powerplants on the marine environment are still not well understood, it appears the coastal marine environment is less susceptible than inland waters to the water quality impacts associated with powerplant cooling. Operation of existing coastal powerplants indicate that these facilities either meet the standards of the State's Thermal Plan and Ocean Plan or could do so readily with appropriate technological modifications. Furthermore, coastal locations provide for application of a wide range of cooling technologies which do not require the consumptive use of inland waters and therefore would not place an additional burden on the State's limited supply of inland waters. These technologies include once-through cooling which is appropriate for most coastal sites, potential use of saltwater cooling towers, or use of brackish water where more stringent controls are required for environmental considerations at specific sites.

efficiency in the use of water resources at ESGS for the generation of electricity in a timely manner.

## Conclusion

Thank you for the opportunity to present this justification regarding the appropriate classification of the continued thermal discharge from the ESPR Project under the California Thermal Plan. We look forward to receiving your determination as to the appropriate classification of the thermal discharge. If you have any questions regarding this request, please contact me at (619) 615-6727 or Tan Hernig at (619) 615-6731.

Sincerely,

Xivid Lloyd

Secretary

## Camornia Regional Water Quality Control Board

## Los Angeles Region

(50 Years Serving Coastal Los Angeles and Ventura Counties)



ston H. Elickus vetar, for resmental ventamenta

320 W. 4th Street, Suite 200, Los Angeles, Cabifernia 90013. Plante [313] 578-5800 FAXX (215) 576-5646. Informat Address: Into Provincia de governo 64

May 14, 2001

Mr. David Lloyd, Secretary El Segundo Power II ELC 750 B Street Suite 2740 San Diego, CA 92101

Dear Mr. Libyd;

DETERMINATION OF CLASSIFICATION OF DISCHARGE FROM THE EL SEGUNDO POWER REDEVELOPMENT PROJECT AT EL SEGUNDO GENERATING STATION (NPDES NO. CA0001147, CI NO. 4657)

We have reviewed your letter submitted previously requesting determination of classification (*Existing or New*) of the discharge from the Et Segundo Power Recevelopment (ESPR) project at the Et Segundo Generating Station (ESGS).

The ESPR project will involve the complete removal of Units 1 and 2 rated at 350 megawatt (MW) from the ESGS. Units 1 and 2 will be replaced with three units (Units 5, 5, and 7) is new combined cycle power plant rated capacity of 530 MW. The other two existing units (Units 3 and 4) located adjacent to Units 1 and 2 will not be modified by this project. The three new Units will continue the use of seawater for once-through cooling system utilizing the same intake and outfall structures that have been used by Units 1 and 2 and at the same flow rate of 207 million gallens per day (mgd).

Based on the definitions of "Existing" of "New" discharge in the Water Quality Control Plan for Control of Temperature in the Coastal and Interstate Waters and Enclosed Bays and Estuancs of California (Thermal Plan), the California Code of Regulations, Title 23, §2210 (definition for *imaterial change*"), and the information provided by El Segundo Power II LLC, it does appear that the ESPR project is properly classified as an "existing" discharge for percoses of the Thermal Plan. As you noted in your letter existing dischargers are required to comply with limits decessary to assure protection beneficial uses and Areas of Special Biological Significance (ASRS).

This determination is limited to the issue presented in your letter of December 13, 2000. That is, it only addresses the request for determination under the Thermal Plan. It is not intended to address other potential issues (e.g., new source issues), that might be raised as a result of the project.

#### California Environmental Protection Agency

Should you have any ouestions, please contact David Hung at (213) 576-6664 or Rosario Astoniat (213) 576-6653

Sincerely,

Dennis A. Dickerson Executive Officer

Enclosure

cc. Robyn Studer, U.S. Environmental Protection Agency. Region tX, Permit Section (WTR-5).

U.S. Army Corps of Engineer

U.S. Fish and Wildlife Services, Division of Ecological Services

NOAA, National Marine Fisheres Service.

Jorge Leon, Office of Chief Counsel, State Water Resources Control Board (SWRCB).

Jim Kassel, Division of Water Quality, SWRC8.

California Department of Fish and Game, Marine Resources, Region 5.

California Coastal Commission, South Coast District

James W. Reede, Jr.: California Energy Comission.

Los Angeles County, Department of Public Works, Waste Management Division.

Jack Petralia, Department of Health Services, Los Angeles County

Los Angeles County, Lifeguard Association

City of Los Angeles, Bureau of Engineering, Wastewater System Engineering Division.

Oily of the Angeles, Bureau of Sanitation, Industrial Waste Management.

Gerald A. Gewe, Department of Water and Power, City of Los Angeles

City of El Segundo, Department of Pubac Works.

City of Carson, Department of Public Works

City of Hermosa Beach, Department of Public Works

City of Manhattan Beach, Department of Public Works

City of Palos Verdes Estate, Department of Public Works.

City of Rancho Palos Verdes, Department of Public Works.

City of Redando Beach, Department of Public Works.

City of Rolling Hills, Department of Public Works

City of Rolling Hills Estate, Department of Public Works.

City of Torrance, Department of Public Works

David Beckman, Natura, Resources Defense Council

California Environmental Protection Agency

Mark Gold, Heal the Bay
Terry Tamminen, Environment Now
Steve Fleischli, Santa Monica BayKeeper
Southern California Coastal Water Research Project
Audun Aaberg, El Segundo Power, ILC, 301 Vista Del Mar, El Segundo, CA 90245
Robert Collacott, URS Corporation, 2020 East First Street, Suite 400,
Santa Ana, CA 92705

# California Regional Water Quality Control Board

Los Angeles Region

Goston H. Hickor February for Aviconmenial Protection (New 50 Years Serving Coastal Los Angeles and Vantura Coastal Recipions of the 2001 Environmental Leadership Award from Keep California Brau(Ma)



230 W. 4th Sereet, Sullic 230, Los Angeles, California 90013
Phone (213) 576-5600 FAX (213) 576-5640 - Interset Address: http://www.sarchica.gov/rwqcb4

May 16, 2002

Mr. Audun Aaberg Regional Plant Manager El Segundo Power, (LC 301 Vista Del Mar El Segundo, CA 90245

Dear Mr. Aaberg:

SEAWATER DESALINATION PILOT PLANT OPERATION - EL SEGUNDO GENERATING SYATION (NPDES PERMIT NO. CA0001147, CI 4667)

Thank you for your letter dated May 9, 2002, informing the Los Angeles Regional Weter Quality Control Board (Regional Board) about your plans to locate and operate a pilot plant seawater desalination facility (Pilot Plant) at your facility at 301 Vista Del Mar, El Segundo, California.

El Segundo Power, LLC (El Segundo) discharges wastewaters from El Segundo Generating Station (Power Plant) under waste discharge requirements contained in Order No. 00-084 adopted by the Regional Board on June 29, 2000. El Segundo operates the Power Plant consisting of 4 steam electric generating units with a design capacity of 1,020 megawatts, located at 301 Vista Del Mar, El Segundo, California. The Power Plant discharges up to 607 million gallons per day (mgd) of wastes consisting of once-through cooling waters, treated metal cleaning wastes, storm water, non-chemical metal cleaning wastes, low volume inplant wastes, and treated sanitary wastes into the Pacific Ocean (Santa Monica Bay), a water of the United States.

The Power Plant is designed to use 607 mgd of ocean water for cooling the steam generating units. The cooling water intake structure consists of two conduits (conduit 1 with a capacity of 207 mgd; and conduit 2 with a capacity of 398 mgd capacity) each providing cooling water for two generating units. The Intake conduits extend approximately 2,600 feet offshore, drawing water from a dopth of 20 feet Mean Lower Low Water.

We understand that the Pilot Plant will be operated by West Basin Municipal Water District (West Basin) and that the operation of the Pilot Plant is scheduled to begin in May 2002 and continue through January 2005. For the operation of the Pilot Plant, West Basin will take 30 gallons per minute (gpm) of societies from intake conduit 1 that has a design capacity of 143,750 gpm (207 mgd). The flow during pilot studies will constitute 0.02% of the total intake flow of the cooling water. The Pilot Plant process consists of passing the seawater through microfiltation and reverse osmosis units. In the Pilot Plant, the sea water will be separated into two components; pure water and waste brine. Each of the separated streams constitute 50 % of the Intake flow (15 gpm of pure water and 15 gpm of brine). Chemicals such as sodium hypochlorito,

Culifornia Environmental Protection Agency

\*\*\*The energy challenge juding California is seal. Every Californian needs to take immedials action to reduce energy consumption as \*\*\*\* for a list of simple ways to reduce demand and too year energy costs, see the tips are https://www.sweeb.co.gov/henv/achallenge.html\*\*\*\*

ammonium hypochlorite, chloramine and antiscalant (in the amount of less than 3 pounds per day each) will be added to the influent water to enhance the removal efficiency of dissolved solids during desallnation. Brine consists of dissolved solids and trace concentrations of metals. After separation, both streams (pure water and waste brine) will be returned to the same power plant cooling water intake conduit 1. It is anticipated that the total emount of chemicals added will have very little impact to the cooling water flow of 207 mgd.

The Pilot Plant operation does not constitute a material change for the NPDES permit issued to the Power Plant. Therefore, we will not need to reopen your NPDES permit. Also, a separate NPDES permit is not required for the Pilot Plant operation. The same constituents that are present in the intake cooling water conduit 1 are discharged back to the conduit, with no net change in contaminant concentration. The amount of chemicals added are very small and will have no adverse impact on the receiving water.

Please submit waste brine monitoring reports on a quarterly basis (by the lifteenth of the month following the end of quarter, i.e. 2" quarter report will be submitted on or before July 15) to Regional Board, Attention' Dr. Tony Rizk.

We thank you for your consent to cooperate in this valuable demonstration study project. The collected data from the Pilot Plant study will help in designing and building a full scale desalination plant which will help alleviate the water shortages in Southern California.

If you have any questions or need further assistance, please call Ms. Blythe Ponek-Becharowski, Acting Section Chief, Watershed Regulatory Section at (213) 576-6720.

Sincerely,

CC:

Dennis A. Dickerson

L. A D. K

Executive Officer

Mr. Michael Lauffer, Office of Chiof Counsel, State Water Resources Control Board

Mr. Paul E. Shoenberger, West Besin Municipal Water District

California Environmental Protection Agency

\*\*\*The energy challenge facing California is real. Every Californian words to take immediate action to reduce energy consumption \*\*\*

\*\*\*For a list of thinger ways to reduce demand and one your evergy costs, sor the tips at http://econstruction.gov/neur/schallenge.html\*\*\*

Phone: 310.615.6342 Fax: 310.615.6060

May 9, 2002

Mr. Dennis A. Dickerson, Executive Officer California Regional Water Quality Board Los Angeles Region - Technical Support Unit 320 W.4<sup>th</sup> St., Suite 200 Los Angeles, CA 90013

Dear Mr. Dickerson:

#### SEAWATER DEMONSTRATION PLANT OPERATION

El Segundo Power, LLC (El Segundo) and West Beşin Municipal Water District (West Basin) have signed a Memorandum of Understanding that allows West Basin to co-locate a pilot plant seawater desalination facility at our site located at 301 Vista Del Mar Drive In El Segundo. CA. West Basin intends to conduct various research studies to increase the knowledge and understanding of the operation, water quality, discharge and production of seawater desalination facilities. The source and discharge of the seawater will be derived from El Segundo's existing intet and outlet facilities. The demonstration plant will operate at a flowrate of approximately 30 gallons per minute or a 1 to 5,000 blend with the existing facilities uses (> 200 mgd).

West Besin has advised us that there will be no material change or affect to our existing NPDES permit and El Segundo believes the data presented to us supports that finding. Therefore, by transmittal of this letter, we respectfully request written concurrence from the RWQCB that no changes to our existing NPDES permit would be required from the operation of the demonstration plant. A prompt answer would be appreciated to keep the project on schedule.

El Segundo also understands that West Basin will be transmitting additional water quality, including effluent characterístics, and other information that provide further details of this project. Enclosed with this letter is the information on the seawater desalination pilot plant prepared by West Basin.

If you have any questions, please do not hesitate to call me at 310.615.6342.

Sincerely,

El Segundo Power, LLC

By: NRG El Segundo Operations Inc.

It's Authorized Agent.

Regional Plants Manager



## West Basin Municipal Water District

17140 S. Avalon Blvd • Spite 210 • Carson, CA 90746-1296 relephone 310-217-2411 • fax 410 217-2414

April 30, 2002

Mr. Audun Aaberg, Regional Plants Manager El Segundo Power LCC 301 Vista del Mar El Segundo, CA 90245

Doar Mr. Aaberg:

# WEST BASIN MUNICIPAL WATER DISTRICT'S REQUEST TO OPERATE A PILOT SCALE SEAWATER DESALINATION PLANT

As you know, a Memorandum of Understanding (MOU) between El Segundo Power LLC and the West Basin Municipal Water District (West Basin) was finalized in the Fall, 2001. Part of the MOU agreement is that West Basin would be temporarily operating a pilot scale seawater desalination plant (capacity of about 20 to 30 gpm or 43,200 gallons per day) within the power plant's property boundary. The operational period for the pilot plant is scheduled to begin in mid-May 2002 and continue through the January 2005. At this time, our plans are to take seawater from your pre-condenser intake manifold and have the seawater pass through the pilot plant's treatment process of microfiltration & reverse osmosis and discharge (brine & reverse osmosis permeate) back into the power plant's outlet manifold. We are enclosing a draft of our submittal to the Regional Water Quality Control Board for your review. The following information comprises our draft submittal:

- West Basin cover letter.
- Draft El Segundo Power letter
- flow schematic;
- one-page summary sheet outlining our pilot plant's operations;
- power plant water quality information from the plant's intake manifold;
   and
- general information on the need for seawater desalination.

West Basin does not anticipate any material changes to your outfall from the pilot plant's operations since the seawater intake for the pilot plant will be essentially the same as that of the pilot plant's outlet. The flow ratio between the power plant operations and the seawater desalination plant will be less than 0.02% or a 1 to 5,000 blend ratio (43,200 to 200,000,000 gallons per day). West Basin has

Mr. Audun Aaberg, Regional Plants Manager El Segundo Power LCC April 30, 2002 Page 2

consulted with Los Angeles Region - California Regional Water Quality Board (RWQCB) staff and informed them of our tentative plans for the seawater desalination pilot plant.

For your consideration, enclosed is a draft sample letter that we respectfully request be transmitted to the RWQCB. It would be greatly appreciated if the attached sample letter could be transmitted to the RWQCB by May 3, 2002. We have a standing offer to provide courier or other services or to expedite delivering the correspondence. Also, upon your concurrence, we intend to transmit all of the attached water quality and other related information to the RWQCB.

In closing, since West Basin will be temporarily using the power plant's outfall during the seawater pilot plant's operational period, which needs to comply with NPDES requirements. West Basin requests that you consult with RWQCB and notify them that even though West Basin will be operating a pilot scale seawater desalination plant "no material change" will occur to the power plant's outfall. West Basin will gladly provide both your company and RWQCB with water quality information from the pilot plant's operation on a querterly basis.

If you have any questions, please contact me at (310) 660-6218.

SHICERBIY,

Paul E. Shoenberger

Chief of Engineering & Operations

\$Microsty Friusorstshared(word)691 wba29

# WEST BASIN MWD SEAWATER DESALINATION PROGRAM PILOT PLANT

- PILOT FACILITIES TREATMENT (20 30 GPM)
  - → Microfiltration/Reverse Osmosis
  - → Discharge flows to the ocean using the El Segundo Power Plant outfail
  - → Anticipated flows: 20 30 gpm (43,200 gallons/day) to be combined with El Segundo Power Plant Flows of (200,000,000 gallons/day)
  - Pilot Plant \* 0.02% of total power plant flows
  - → Operational Period: May, 2002 June, 2005(?).

#### ANTICIPATED WATER QUALITY

- → Same as ocean intake and outfall
- → Chloramine (3 5 mg/L).

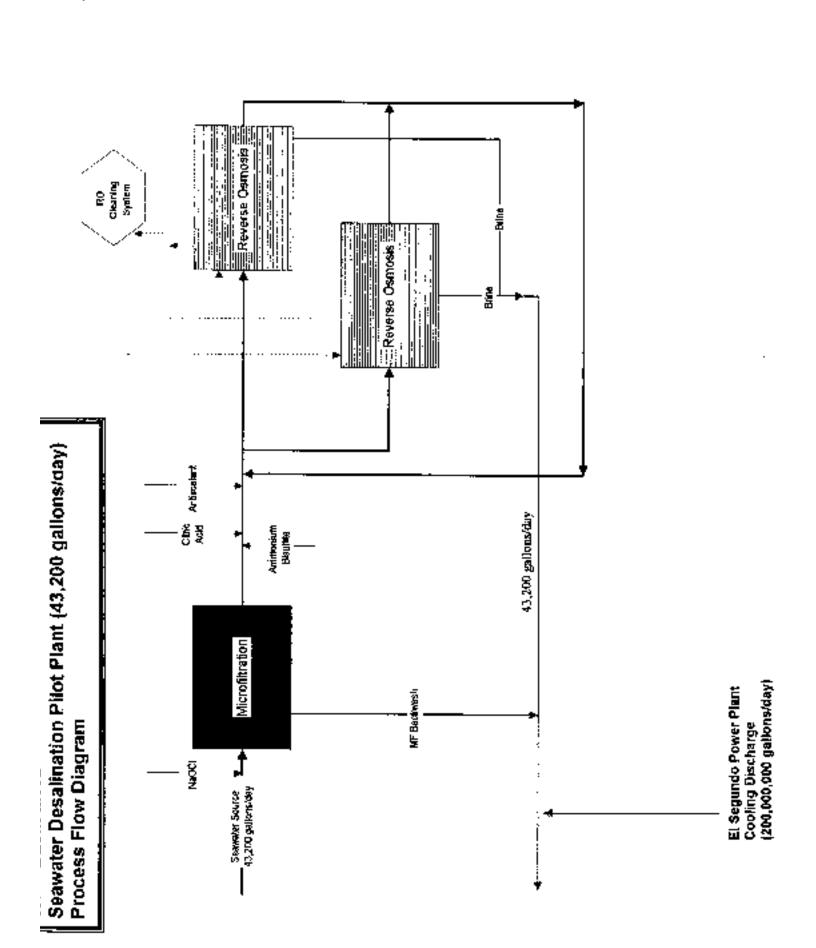
### OPERATION AND MAINTENANCE

j

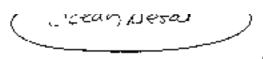
- → Regular Operation of Reverse Osmosis Chemical Addition (Approve JSF for Drinking Water Purposes less than 3 lbs./day)
  - Sodium Hypochlorite (3 8 mg/L).
  - Ammonium Hypochfarite (1 -2 mg/L)
  - Antiscalant (3 mg/L).
- → Cleaning with chemicals once ever 3 weeks Addition (Approve NSF for Drinking Water Purposes less than 3 lbs./day)
  - Microfiltration 100 gallons
    - Citric Acid (2%).
    - Sodium Hypochlorite (550 ppm).
  - □ Reverse Osmosis 100 gallons
    - Citric Acid (2%).
    - Sodium Hypochlorite (500 ppm).
    - Phosphate Solution (2%)

#### RWQCB RECOMMENDATION

- → No Permit Needed for Temporary Project
  - No material change to receiving water
  - □ Temporary discharge period
  - □ Pilot plant flow only 43,200 gal/day vs. 200 mgd from power plant







## Weck Laboratories, Inc.

Environmental and Analytical Services - Since 1964

Report Date: FAthy, April 05, 2002 Received Date: Wednesday, March 27, 2002

Log By: nr 14:01

Client: West Basin Municipal Water District

17140 South Avalon Blvd., Suite 210

Carson, CA 90746-1218

Attn.: Cheryl A. Ross

Project: West Sasin Water Roc. Plant

Sampled By: T. Abegunde/T. Tran

Phone: (310) 550-6245 FAX: (310) 217-2414

F.O. 8: Agreement B1187 Yemsround Time: Normal

#### **CERTIFICATE OF ANALYSIS**

Lab#: A202162-004

LASM: A202182

Sample ID: Influent

Date: 3/27/2002

Time: 10:10

Matrix: Sea Water

Source: R & D

Perameter		Result Flac	. Units	Dilution Factor	RL	Method	Analyzed	Workshoet #
								11017217217
Prep.	EPA1613B							
2,3,7,8-TCI	Do (Doen)	Panding	Pag.	. 1		EPA18138		
1.2.3.7.8-PeQ0D Pe		Pending	pot	. 1		5PA1813B		
1,2,3,4,7,8-HxCDD		Pending	pg/L			EPA1813B		
1,2,3.5,7,8-HxCCD		Pencing	pg/L	τ .		EPA1613B		
1.2.3,7,8,9	H±CDD	Pending	pg/L			EPA1613B		
1,2,3,4,6,7,	8-HpC00	Pending	pall			EPA16138		
OCDD	•	Pending	pg/L			EPA16138		
2,3.7,B-TCI	D <del>F</del>	Pending	pay.			EPA1613B		
1,2,3,7,B-P	•CDP	Pending	pol			EPA1613B		
2.3.4,8,7.8-	Pecof	Pending	pgrL	-		EPA16136		
1.2,3,4,7.6	HxCDF	Pending	po-L	_		5PA16138		
:.2.9, <del>0</del> ,7,6-	HxCDF	Pending	pgt			EPA16138		
2.3,4,6,7,8-H#CDF		Pending	Dat	-		EPA16138		
1.2.3.7.8.8-HxCDF		Pending	pg/L			EPA18138		
1.2.3.4.B.7.	8-HpCDF	Pending	part.			EPA16138		
4.2.3.4.7. <b>0</b> .	9-HpCDF	Pending	pg/L			EPA16138		
OCDF		Pending	pg/L			EPA1813B		
Civorsium,	hexavelent (Cr VI)	ND	mg/L		0.01	SM 3900Cr D	3/27/2002	in YYS32814
Pred	SM4500CH							
Cyanide, in	tal	ND	mg/L	1	0.05	SM 4500CN E	3028/2002 6	WS32838
Gross alpha	<b>a</b>	Paraling	bCML			Sub-contract		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Gross apta	counting error (+/-)	Pending	pC11			Sub-contract		
Grass bata		Pending	,	4		Sub-contract		
Gross bets	counting error (+/-)	Pending		•		Sub-corwant		
Ргер.	EPA 200,2							
- Auminum		ND	ug/L	1	40.0	EPA 200.8	3/28/2002	u vvs32878
<b>Vibriony</b>		ND.	now.			EPA 200.8	3/28/2002 8	
Sarium		5.4	ugit.			EPA 200.8	3/28/2002 4	
eryltum		NED	no.r			EPA 200.8		
,		1000	ஷா	'	4.30	EFA CW.D	3/20/2002 1	· • • • • • • • • • • • • • • • • • • •

Page 1 01 5



Weck Laboratories, Inc.

Emisonmental and Analytical Services - Since 1964

Cflent: West Basin Municipal Water District

Project Name: West Basin Water Rec. Plant

Report Date: Friday, April 05, 2002

#### CERTIFICATE OF ANALYSIS

Labe: A202162-004

Lab# 4202162

Sample (Dr. Influent

Matrix: Sea Water

Sampled By: T. Abegundelf. Tran-

Date: 3/27/2002

Time: 10;10

Source: R & D

Parameter	Result	Mag	Units	Dilution Factor	RL	Method	Analyze	ed	Worksheet #
Cadmium	ND		ug/L	1	0.50	EPA 200.B	3/28/2002	eri	W932874
Соррег	4.0		VQ/L	1	2.0	EPA 200.8	3/28/2002	et.	W532878
Lsac	ND		unit	1	1.0	EPA 200.8	3/28/2002	<b>a</b> t	WS32676
Marganese	1.7		սը/Լ	1	1,0	&PA 200.8	\$/2/\$/2002	<b>±</b> d	WS12878
Nickel	ND		ug/L	1	2.3	EPA 2008	3/28/2002	át.	W\$32878
Thailliam	ND		ug/L	1	0.50	<b>200.8</b> ≥	3/28/2002	<b>p</b> †	W\$\$2676
Zinc	17		. ather	1	10.0	EPA 200.6	3/28/2002	邦	WS12878
Ргер. ЕРА 200.2									
Boren	4400		ug/L	1	10	EPA 200.7	3/28/7002	N#	W\$32810
Iron	ND		ugyL	1	20	EPA 200.7	3/28/2002	ng.	W322810
Arsenia	19		ug/L	1	10	EPA 200.7	3/28/2002	ne	V/S32910
Selemburn	ND		بالون	1	10	EPA 200.7	3/28/2002	N	W932910
Chromium, total	NU		ug/L	1	5	EPA 2007	3/28/2002	TLE	W532910
Mercury	MD		ug/L	1	0.10	GPA 245.1	4/1/2002	totu	VV\$32920
Chloromethens	ND		vg/L	1	1.0	EPA 624	3/28/2002	AB	VV932648
.Vinyl styoride	ND		US/L	1	1.0	EPA 624	3/28/2002	A5	W\$32848
- Sicinometrane	MD		ug/L	1	1.0	6PA 624	3/28/2002	AS:	W\$31648
Chloroothane	MD		ug/L	1	1.0	EPA 624	3/28/2002	AS	VV932648
Trichlorofluoremethane (Freon 11)	ND		بالوب	1	1,0	EPA 624	3/28/2002	A5	WS32848
1,1-D chlarophene	ND.		49/1	٦	1.0	SPA 824	3/26/2002	AS	W332848
Metrytene chloride (Cichloromethane)	ND		ug/L	1	8.0	EPA 624	3/28/2002	AŞ.	VV\$32848
trans-1,2-Dichloroethese	ND		vg/L	1	1.0	EPA 624	3/28/2002	AĞ	VV\$12849
1,1-Dichloroethane	ND		ug/L	1	1.0	EPA 824	3/39/2003	A\$	VVS32848
Chloroform	ND		og/L	1	1.0	EPA 624	3/28/2002	A5	W832848
1,1,1-Trichloroethane	ND		og/L	1	1.0	EPA 624	3/28/2002	AŞ.	WS32846
Carbon létrachionde	ND		og/L	1	1.0	EPA 624	3/28/2002	A5	W\$37848
Benizone	ND		og/L	1	1.0	PPA 624	3/28/2002	A\$	W\$32046
1,7-Dochioroethane	ND		og/L	1	1.0	EPA 624	3/28/2002	A\$	VV\$32848
Trichlorosthere	ND		eg/L	1	1.0	EPA 624	3/28/2002	A\$	WS32948
1.2-Dichioropropane	ND		ـالون	1	50	EPA 624	3/28/2002	AS	VY332846
Bromodichicromethane	ND		UgiL	1	1.0	EPA 824	3/29/2002	AS.	VVS32548
2-Charcethylvinyl ether	ND		ug/L	1	5.0	EPA 624	3/28/2002	ΑĐ	W\$32848
cis-1,3-Dichicropropene	ΝĐ		աջև	1	1.0	EPA 624	3/28/2002	AS	VY832846
Taluene	ND		UNL	1	1.0	EPA 624	3/28/2002	AS	WS32848
mans 1,3-Digitioropropens	ND		ugil	1	1.0	EPA 624	3/28/2002	۸S	VV\$32846
1,1.2-Trichlorosthane	ND		447	1	1.0	EPA 624	3/28/2002	AS	WS32848
Tetrach orgethene	ND		uguL	1	1.0	EPA 624	3/28/2002	A\$	VYS32848
Dibromochloromethane	NĎ		ug/L	1	f.D	EPA 824	3/26/2002		VV532848
Chiarobenzane	ND		warL	1		EPA 624	3/28/2002		VY932848
Ethyl benzeng	ND		الوب	i .		EPA 624	3/28/2002		VV932846
Bromoform	ND		ug/L	1		EPA 624	3/28/2002		W\$32848
1.1.2.2-Tetrachigroathane	NO		LEGAL.	1		EPA 624	3/25/2002		W\$12648
1.3-Dichlomberzene	ND		الون	1		EPA (Z4	3/26/2002		VV\$32848
1,4-Dichlorobenzene	NO		Lagul.	i		EPA 824	3/26/2002		VV\$12848
			-						

Page 2 of 5



Environmental and Analytical Services - Since 1984

Report Date: Friday, April 95, 2002

Cleent: West Basin Municipal Water District Project Name: West Basin Water Rec. Plant

#### CERTIFICATE OF ANALYSIS

Lab#: A202162-004

Sample ID: Influent

Matric: See Water

Sampled By: T. Abegunde/T. Tran' Date: 3/27/2002

Time: 10:10

Source: RAD

Caramete:	•			Result	Flag	Units	Dikation Factor	RL	Method	Analyza	4	Workshoot #
1.2-Dichtorobertzene				ND		us/L	1	1.D	EPA 624	3/28/2002	-5	W\$32848
Acroisin				ND		vo/L	1	10.0	EPA 624	3/28/2002	٨Ş	W\$32848
Azrytonitnie	!			ND		ոց/Ն	1	10.0	EPA 624	1/28/2002	AS	VV\$32848
Tentahwely I	Identified Compo	ımçş	566	etached		ugʻL	1	1.0	<b>EPA €24</b>	3/28/2002	AS	W\$12848
Ргор.	EPA 625	Oate:	3/27/2002	By	TH, JL							
N-Neese-di	imelhylemine			ND		ug/L	1	10.0	EPA 625	3/30/ <b>2002</b>	bα	W832797
Phenol				ND		ug/L	1	10.0	EPA (125	3/30/2002	þα	W232797
bis(Z-Chloro	wty) Ether			ND		og/L	1	10.0	EPA 626	3/30/2002	þπ	WS32797
2-Chloropha	en al			NØ		ug/L	1	10.0	EPA 625	3/30/2002	bΛ	W212787
1.3-DaNara	benzene			ND		ug L	1	10.0	EPA 625	3/30/2002	bп	W332797
1.4-D ctYoro	benzene			ND		Ug/L	1	10.0	EPA 825	3/30/2002	bn	VVS32797
1,2 Dichloro	benzana			ND		UG/L	1	1D.0	EPA 825	3/30/2002	рa	W832707
bla(2-Chtora	isopropyl) ether			ND		ug/L,	1	10.0	EPA 625	3/30/2002	М	VV\$32707
N-Nitroso-di	i-n-рісруівліке			ND		பலட	*	10.0	EPA 025	3/30/2002	þп	VV\$32797
Hexachlore	erhane			ND		ug/L	*	10.0	EPA 625	3/30/2002	ban.	WS32797
Nibatenzen	h <del>e</del>			ND		USA	τ	10.0	EPA 625	3/30/2002	bn	W\$32797
saphorone				ND		UNE	7	10,0	EPA 825	3/30/2002	<b>þ</b> n	WS32797
2-Mirophan	러			NĎ		பதட	1	20	EPA 625	3/30/2002	þΩ	W\$32797
2,4-Dimethy	dphenol			ND		ug/L	ť	10.0	EPA 625	1/30/2002		W\$32797
bis(2-CnAoro	ethoxy) methani	•		ND		ug/L	1	10.0	EPA 625	3/30/2002		W\$32797
2,4-Diction	phenol			ND		Ug/L	1	10,0	EPA 625	3/30/2002	bp	WS3278T
1,2,4-T <del>rich</del> ic	enegragore			ND		ugit.	1	10.0	EPA 625	3/30/2002	þп	W\$32797
Naphtheleni	å			ND		ug/L	1	10.0	6PA 625	3/30/2002		WS32787
Hexachlorob	tutediene			ND		UOL.	1	10.0	EPA 525	3/30/2002	bn	VV932787
4-CM <del>M</del> -3-4	Mathylphenal			ND		UØ/L	1	10.0	EPA 625	3/30/2002		VVS32797
Hexachlorod	bydiopartadiene			ND		الاون	1	20	EP4 625	3/30/2002	bn	VVS32797
2. <b>4.6-</b> Trichle	orophenel			ND		ug/L	1	20	EPA 625	3/30/2002		W\$32797
2-Chloronap	antralens			ND		ug/L	1		EPA 825	3/30/2002		W\$32787
Dimethyl ph	thatate			NO		սցՂ	1		EPA 625	3/30/2002		VV\$32787
2,8-Dinlovio	dreuk			ND		υ <b>σ</b> 'L	1		EPA 625	3/30/2002	•	WS32787
A cenaphiny				NĎ		ugiL	1		EPA 625	3/30/2002		WS32797
Acenaphihe				ND		UZ/_	1		EPA 625	3/30/2002		YYS32797
2.4-Dinimol	henol			ND		UB'L	ì		EPA 625	3/30/2002		WS32797
- Nitrophare	ál .			ND		⊔g/L	ì		EPA 625	3/30/2002		W532797
2.4-Dinitro:c				ND		100'L	i		EPA 625	3/30/2002		VY532797
Diethyl phth	alate			ND		ug/L	i		EPA 625	3/30/2002		VV932797
	myt phenyl ether			ND		uga L	•		EPA 628	1/30/2002		VVS32797
Fluorene				NO		ug L		-	EPA 623	3/30/2002	•	VY332797
	2-metnyphenci			ND		ugit	1		EPA 625	3/30/2002		W\$327#7
	phonytaming			NO		ugit	1		EPA 825	3/30/2002	_	vv532707
	chydrazina es Az	ring name		ND		ug/L	1		EPA 825	3/30/2002		VVS32797
	nyi phenyi etwo		-	NO		_						VV932797
Hexachlorox				ND		ug.t.	1	-	EPA 825	3/30/2002		
nessaniwa: Penleablora						ug/L	1		EPA 625	3/30/2002		VVS32797
	hu <del>수</del> 사			. ND		July 1	1	FD.Q	EPA 825	3/30/2002		VVS32797

LAD#: A202162

Page 3 of 6



Client: West Basin Worldgal Water District Project Name: West Basin Water Res. Plant Report Date: Friday, April 05, 2002

#### **CERTIFICATE OF ANALYSIS**

Labe: A202162-004

Sample ID: Influent

Medrix: Sea Water

Sampled By: T. AbegunderT. Tran Date: 3/27/2002

Time: 10:10

Source: R & D

Parameter	Result	Flam Uni	Dilution 4 Factor	RE Mathod	Analyzad	Workshoot #
					<del></del>	
Phonas trone	NED		yl 1	10.0 EPA 625	3/30/2002 th	W9J2797
Anthracene	NO NO		yL 1	10.0 EPA 625 10.0 EPA 625	3/30/2002 bn	VV\$32797 VV\$32797
dim-Buryl phrasism		-	μL t		3/30/2002 bh	
Fluoranthere Senziding	МĎ		րՆ 1 ան 1	10.0 EPA 525	3/36/2002 bn 3/36/2002 bn	WS32797 WS32797
	NO.		-	10.0 EPA 625		
Pytere Rutelbanaul abilitation	ND CM	-	VL 1	10.0 EPA 825	3/30/2002 th 3/30/2002 th	W\$42797 W\$32797
Butyl benzyl shihalate 3.3'-9chlorobenzodno	NO OM	-	94. 1	10.0 EPA 625	3/30/2002 bn	WS32797
bis (2-B(ty/hgxyl) phthalate	ND ND		A. 1	10 0 EPA 625	3/30/2002 bn	W332787
	ND ND	-	VL 1	10.0 EPA 625		WS32797
Benzo (a) Anthrateire			9A. 1	10.0 EPA 625	3/30/2002 Bh	
Chrysens	CM CM			10.0 EPA 525	3/30/2002 bn	WS32797
din-Ody, phihelate			priliti	10.0 EPA 825	3/30/2002 en	VVS32797
Benzo (b) Fixorenthene	ΝO	,		10.0 EPA 825	3/30/2002 en	VV832797
Banzo (K) Fluorantheno	NO:	,	uL 1	10.0 EPA 825	3/30/2002 bn	W\$32797
Senzo (a) Pyrena	ΝĐ		y <b>t</b> 1	10.0 EPA 825	3/30/2002 to	W952797
Inderé (1,2,3-cd) Pyrene	ND		pL 1	10.0 EPA 825	3/30/2002 bn	VV932797
Ocenzo (e,h) Armitocene	Мо		yL 1	10.0 EPA 825	3/30/2002 bn	4V952797
3enzo (g.h.l) Perytene	ΝĎ	14	2 <b>1.</b> 1	10.0 EPA 625	3/30/2002 tm	WS32787
Tentatively Identified Compounds	See attached		1	EPA 825	3/30/2002 bh	VV\$32797
Prep. EPA 808 Date: 4/2/200	12 <b>9</b> y	THUL				
Aldrin	ND	U.		0.10 EPA 696	4/4/2002 kg	VV3.32962
alpha-BHC	ND	U	y. 1	0.10 EPA <b>606</b>	4/4/2002 Mt	W\$32962
Çetà-BH¢	NO	U	y/L 1	0.10 EPA 606	4/4/2002 kt	YV\$32962
della-BHC	NO	Ų	ot :	0.10 EPA 608	4/4/2002 kt	VVS.32982
ដូមជាក់ត-BriC (lindade)	NO	U	1	0.10 EPA 806	4/4/2002 bk	VVS32982
4,4'-030	N.O	U	yA :	0.10 EPA 606	4/4/2002 bk	VVS32082
4.4°-DDE	NO	u	ol 1	0 10 EPA 608	4/4/2002 kk	VV\$32962
4,4°-00T	NO.	u	ga 1	0.10 EPA 505	4/4/2002 🕸	VY232862
Distain	N/3	U	144	0.10 EPA <b>6</b> 98	4/4/2002 Ax	VV\$32962
Endocufen (	CM	u	ML 1	0.10 EPA 506	4/4/2002 MX	VVS32982
Endosulian I	CM	Li	AL.	0.10 EPA 608	4/4/2002 Mx	YY532962
Endontálan sulfata	CN	ц	PA 1	0.10 EPA 808	4/4/2002 bk	VV332982
Entire.	N2	u	1/1	0.10 EPA 808	4/4/2002 14:	VV\$32962
É <b>nd</b> in aldehyde	ND	U	A_ 1	0.10 EPA 506	4/4/2002 10:	VV932942
Repraction	· AD	u	g/L 1	0.10 EPA 506	4/4/2002 NX	VVS32982
1 teptechter epoxide	CN CN	U	g/L 1	0.10 EPA 608	4/4/2002 14:	VY\$32982
Methoxychian	CM		y/L 1	0.10 EPA 600	4/4/2002 14	VYS32942
Texaphere	dN.		%L 1	1.50 EPA 636	4/4/2002 kk	YY532982
Chlordare	ND.		±/L 1	0.50 EPA 608	4/4/2002 18:	YY\$32882
Arader-1016	ND		ok 1	1,00 EPA 608	4/4/2002 kk	VV532982
Arador-1221	NO.		υL 1	1.00 EPA 608	4/4/2002 kk	VVS32982
Arador-1232	ND		g/L 1	1.00 EPA 606	4/4/2002 kk	VV232982
Arodor-1242	ND		≱L 1	1.00 EPA 608	4/4/2002 Hk	WS32982
Arodor-1249	MD		97. 1	1.00 EPA 608	4/4/2002 kk	W532982
Late: A202162						Boar 4 of 4
						Page 4 of 5

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Environmental and Analytical Services • Since 1964

Citions: West Basin Municipal Water District Project Name: Wasi Bash Water Rec. Plant Report Date: Friday, April 05, 2002

#### CERTIFICATE OF ANALYSIS

Luba, A202182-004

Sample ID: Influent

Matrix: Sea Vistor

Sampled By: T. Abegunde/T. Y/mn

Oats: 3/27/2002

Tirap; 10:10

Source: R & D

Perameter	Result Flag	Divisor Units Fector	RL Method	Analyzed	Worksheat #
Arodor-1254	ND	սացմե, 1.	1.00 EPA 608	4/4/2002 NK	W\$32962
Arodor-1260	ND	Լոգի1∟ 1	1.00 EPA 608	4/4/2002 KK	W\$32982

Flags for Data Qualifiers:

ELAP # 1132 LACED # 10143 \*

8 = Compound detected in the blank. Sample result equal or less than 10 times the concaveration in the blank. J = Analyte was detected. However, the energie concentration is an estimated value, which is between the Method Detection Limit (MDL):

and the Prollect Quantitation Umit (PQL).

H = Estimated value, result over the calls ration range.

R = Result is puspect. LCS recovery greater than the upper control lenic.

L = Result is suspect, UCS recovery lower them the control limit.

Q = QC result out of acceptance (Imits.

T = Trace detection, detected but below the reporting limit.

obes:

The Chain of Castody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date Unless other attanguments are made in advance. At results are expressed on wet weight basis unless specified.

RL = Reporting Limit.

NO = Not detected, below the reporting Smit.

Sub = Subcontracted abolivitis, original report enclosed,

Lab#: A202162



Environmental and Analysical Services - Since 1964

Report Date: Priday, April 05, 2002 Received Date: Wednesday, March 27, 2002

> Log By: mr Log Time; 14:12

Client: West Basin Municipal Water District

Sampled By: T. AbegunderT. Tran Date: 3/27/2002

17140 South Avalon Blvd., Suita 210

Carson, CA 90746-1216

Attn.: Charyl A. Ross

Project: Wasi Bash Water Rec. Plans

Phone: (310) 860-6246 FAX: (310) 217-2414

P.C. #: Agreement B1187
Turnsround Time: Normal

### **CERTIFICATE OF ANALYSIS**

Lab#: A202162-005

Sample ID: Discharge

Time: 9:35

Matrix: See Water

Source: R&D

Paremeter	Result Flag	Multe	Dilution Patter	RL	Method	Anhlyzoid	Worksheet i
Prep. EPA16138					•		
2,3.7.8-TCDD (Droxin)	Pending	200	1		EPA1613B		
1,2,3,7,8-PMCDD	Pending	port	1		EPA16136		
1,2,3,4,7,8-haCOD	Penalme	pg/L	t		EPA16138		
1.2.3 6.7.8-HaCDD	Penalog	Joq	1		EPA78138		
1,2,3,7,8,9-HxCDD	Pending	po/L	1		EPA16138		
1.2.3.4.6,7,8-HpCDD	Pending	001	1		EPA1613B		
OCDD .	Pendina	port	1		EPA1613B		
2.3.7.8-TCDF	Pending	P9/L	i		EPA1613B		
1,2,3,7,8-PaCDF	Persing	pg/L	1		EPA1613B		
2.3.4,6,7,6-PeCDF	Pending	to-	i		EPA16138		
1.2.5,4.7,8-HxCDF	Pending	part.	ì		EPA1613B		
1,2,3,6,7,8-HeCDF	Panding	pol.	i		EPA1812B		
2,3.4,8,7,8-H±CD#	Pending	part	ì		EPA16138		
1.2.3.7.8.9 HxCOF	₹•ndng	pg/L	ì		EPA16:38		
1,2,3,4,8,7,6-HpCDF	Pending	PO/L	1		EPA18138		
1,2,3,4,7,8,9-ApCDF	Pending	שליבית.	í		EPA18138		
DCQF	Panding	pg/L	í		EPA1813B		
Chremium, hesivalent (Cr VI)	MD	mg/L	i	0.01		3/27/2002 No	VV532814
Prep. SM4500CH							
Cyanide, total	ND	feg/L	1	0.05	SM 4500CN E	SIDADANA H	WS32838
Cross siphs	Percling	pCI/C	4	4.05	Sub-contract	ACMENGE III	71032030
Gross sipha counting error (+/-)	Petiding	pCV_	1		Sub-contract		
Gross betw	Pending	,,,,	i		Sub-contract		
Gross beta counting error (+/+)	Pending		•		Sub-contract		
Prop. EPA 200,2	•						
Auminum	ND	vo/L	1	10.0	EPA 200.8	1000000	****
Antifitony	ND CM	vol.	1		EPA 200.8	3/28/2002 at	W932876
Benum	8.5	oo/L	1		EPA 200.8	3/28/2002 at	W532676
Seylkum	NO	ug/L	1		EPA 200.8	3/28/2002 et 3/28/2002 et	W\$32676 W\$32676
					_ 3		Pego 1 of 5



Emmonmorphi and Abalysical Services - Since 1964

Client: West Basin Municipal Water Oktolo: Project Kame: West Basin Water Rec. Plant Report Date: Friday, April 05, 2002

### **CERTIFICATE OF ANALYSIS**

Lebe: A202162-005

Sample ID: Oscharge

Metric: Sea Weter

Sampled By: T. Abegundoff, Tran Date: 3/27/2002.

Source: R & D Time: 0:35

•	<b>-</b>		Units	Dilettort	ŘL.	Method	Analyzed	Worksheet 3
Payameter	Result	Fiag			·			
Caamium	ND		vg/L	1		EPA 200.B	3/28/2002 at	W\$32876
Cooper	2,4		DQ/L	1		EPA 200.8	3/28/2002 at	W\$32676
Lead	ND		արև	1		EPA 200.6	3/28/2002 at	V/232876
Manganese	2.0		ugit	1		EPA 200.8	3/28/2002 At	W832876
Nickel	ND		ud/L	1		EPA 200.8	3/26/2002 at	VV532876
Alaminan	ND		ug/L	1		EPA 200.8	9/26/2008 at	VI\$32878
Zine	ND		wit	1	10.0	EPA 200.8	3/28/2002 st	V/932876
Ртер 6РА 200.2								
Baron	4400		ug/L	. 1	10	EPA 200.7	3/78/2002 63	-
Iran	ND		UML	1	20	EPA 200.7	3/28/2002 na	W\$32810
Atemio	16		univ.	. 1	-	EPA 200.7	3/28/2002 na	VVS32810
Chromium, soul	ND		unt/L	1	5	EPA 200.7	9/26/2002 ла	VV\$22010
Selentum	ND		Ubil.	1	10	EPA 200.7	3/28/2002 PF	W932010
Mercury	ND		u <b>n.</b>	1	0.10	EPA 245.1	4/1/2002 (6/	n W532920
Chloromethana	ND		ug/L	1	1.0	EPA 674	3/28/2002 AS	W832648
, Vinyl charide	ND		unt	1	1.D	EPA 624	9/28/2002 AS	W532848
Bromomethare	17		Lagra.	1	1.0	EPA 674	3/28/2002 AS	W832648
Chlorostrans	ND		ug/L	1	1.0	BPA 624	3/28/2007 AS	
Trictlorofluoromethene (Freen 11)	NO		ug/L	1	1.0	EPA <b>62</b> 4	3/26/2002 AS	WS32648
1.1-Dichlorcethene	ND		ug/L	1	1.0	EPA 624	3/28/2002 AS	W\$32648
Methylena chloride (Dichloromethane)	NO		up/L	1	5.0	EPA 624	3/26/2002 AS	VV532648
trans-1,2-Dichloroethere	180		ug/L	ſ	1.0	EPA 824	3/28/2002 AS	W\$32648
1.1-DicMorsethane	NO		June 1	t	1.0	EPA 624	3/28/2002 AS	W537848
Chloroteem	CIA		ug/L	1	1.0	EPA 824	3/28/2002 AS	WS32848
1,1,1-Trichtorgethane	ND		ug/L	1	1.0	提門A 6章4	3/28/2002 AS	VV532848
Carpon lettachloride	ND		Light.	1	1.0	EPA 624	3/28/2002 AS	V/\$32846
9enzene	ND		ua.	1	1.0	EPA 524	3/28/2002 A	W\$\$2848
1.2-Dichleroethane	ND		w)L	1	1.0	EPA 824	3/28/2002 A	VYS32846
Tachlorosthene	ND		wal	1	-	EPA 624	3/28/2002 AS	W\$32848
1,2-Dichloropropene	ND		Ugit	1		EPA 624	3/28/2002 AS	W\$32846
Bremodichtoremetrane	ND		ug/L	•	1.0	EPA 624	3/26/2002 A6	VV532848
2-Criomethyvinyi smer	ND		ug/1.	1	6.0	EPA 624	3/28/2002 AS	WS32846
cas-1,3-Dicasoropropene	ND			1		EPA 624	3/28/2002 AS	W\$37648
Taluene	ND		ug/L	i		EPA 624	3/28/2002 AS	W532648
Irans-1,3-Dighlo-coropene	ND		սարդե	1		EPA 624	3/28/2002 A	
1.7.2-Foothorsethane	ND		ug/L	1		EPA 624	3/28/2002 A	
Tetrachioroethene	ND		49/L			EPA 624	3/28/2002 A	-
Ditinamodyoromethane	ND		nā.r			EPA 624	3/26/2002 A	
Chlorobenzene	ND		ug/L			EPA 624	3/29/2002 A	
Ethyl penzene	ND		_			EPA 624	3/28/2002 A	-
Bromolom.	ND		الون احب			EPA 624	3/28/2002 A	
1.1.2.2-Tetrachioroethane			utr'L			EPA 624	3/28/2002 A	
1,3-Dichlorobanzene	NO.		աթև					
	ND		₩.		-	EPA 824	3/26/2002 At	
1.4-Olchlorobanzene	NO		: <del>1</del> 3/	1	1.0	EPA 824	3/28/2002 AS	0 11992667

Each: A202162

Page 2 of :



Environmental and Analytical Surveys - Since 1964

Report Date: Friday, April 05, 2002

Clernt: West Basin Municipal Water District Project Name: West Basin Water Rec. Plant

### CERTIFICATE OF ANALYSIS

Lab#: A202162-005

Sample (D: Discharge

Matria: Sea Water

Sampled By: T. Abegunge/T. Tren

Date: 3/27/2002

Time: 0:35

Source: R & D

Parameter				Regult	Plog	Unite	Dilution Fector	AL,	Method	Analyz-	•d _	Worksheet #
1.2-Dienlaret	29(12)010			מא		ug/L	1	1.0	EPA 624	3/28/2002	•	W£32948
Acrolein				ND		بالوبا	1	10.0	6PA 824	3/28/2002	۸S	VY\$32846
Acrylonimie				ИĎ		ugit.	1	\$D.D	EPA 824	3/28/2002	AS	W\$32848
Tensel-ely lo	tentified Compo	emdş	Sec	- Misched		u <b>g</b> uL	1	1.0	EPA 624	3/28/2002	AS	W532848
Ртер.	EPA 025	Date:	3/27/2002	By	TH_IL							·
N-Nitreso-dir	nethylamina			NO		ug/L	1	t0.0	EPA 625	3/30/2002	ВΠ	W <b>S3279</b> 7
Phendi				MQ		UVL	1	10.0	EPA 523	3/30/2005	ÞΩ	W632797
bis(2-Chlore	ethyl) Ether			NO		பறிட	1	10.0	EPA 825	3/30/2002		W932797
2-Chisrophe	nel			NO.		ug/L			EPA 825	3/30/2002	<b>b</b> er	W632787
1.3-Dichlarct	enzene			NO		بالجد	1	10.0	EPA 625	3/30/2002	bп	VV532797
1,4-Dichlerch	genzeno			NO		Ug/L	1	10.0	EPA 626	3/33/2002	ba	VVS32797
1,2-Dichlorck	enzere			NO		ug/L	1	10.0	EPA 625	\$130/2002	DΩ	VV952797
bla(2-Chiorol	sopropyil etner			NO		بالوبا	1	10.0	EPA 626	\$43045003	Þή	VVS32797
N-Nitroso-di-	enimskygor g-n			NO		ug/L	1	10.0	EPA 826	3/30/2002	ЪĦ	YV\$32787
Herachloree	thene			NO		wit	1	10.0	EPA 626	3/30/2002	00	W632797
Nitrobenzeni	•			ΝΦ		ugit	1	10.0	EPA 625	3/30/2002	ÞП	W\$32797
enerorique)				NO		LEGAL.	1		PPA 625	3/30/2002	þen	W832797
2·Nikopheno	al .			NO		UNI	1	<b>2</b> D	EPA 625	3/33/2002	þп	W\$32787
2,4-Dimethy	ghenal			NO		up!	1	1D.D	EPA 625	3/39/2 <b>0</b> 02	М	WSJZ7BT
bls(2-Chlore)	ethosy) methark	•		NO		Wat.	1	10.0	EPA 025	3/30/2002	ы	VV532787
2.4-Dichlorog	phanel			ÇM		ug/L	1	10.0	EPA 625	3/36/2002	DΛ	VVS32797
1,2,4-Tet;blo	robenzena			ND		ug/L	1	10.0	EPA 625	3/30/2002	ÞΛ	VVS32797
Naphtaalana	ı			ND		ug/L	1	10.0	EPA 625	3/30/2002	þn	W532797
Hexactvorob	Ladenc			ND		بالون	1	10.0	EPA 625	3/30/2002	рπ	VVS32797
4-Chlora-3-N	fettytprenol			NÓ		u <b>g</b> /L	1	10.9	EPA 525	3/30/2002	bп	W532797
Hexaphored	ydopertadishs			NĎ		ug/E	t	20	EPA 625	3/30/2002	Þά	VVS32797
2.4,8- <sup>14</sup> richio	rophensi			ND		ugi)L	1	20	EPA 825	3/30/2002	þη	VVS32797
Z-Chioronap	nskalene			ND		بالوبا	1	10.0	EPA 625	3/30/2002	þп	W532797
Demotry/ pho	NESK.			ND		ugit.	1	10.0	EPA 825	3/30/2002	bп	W932797
2,6-CHristoto	kaene			ND		ugit.	1	10.9	EPA 625	3/30/2002	þп	VV932787
Acenaphityl	ere			ND		IAST.	1	10.0	EPA 625	3/30/2002	þп	W\$32797
Aconaphitae	r <del>ie</del>			ND		பற்ப	. 1	10.0	EPA 825	3/30/2002	bn	W\$32797
2.4-Dimitrop <sup>a</sup>	repol			NO		ug/L	. 1	40	EPA 525	3/30/2002	Dr1	W\$32797
4-N Stopheno	k			ND		ug/L	. 1	20	EPA 825	3/30-2002	þп	VVS32797
2.4-Dinitrato	luere.			NEO		ugalt	1	10.0	EPA 625	3/30/2002	þéi	W9327#7
Olethyl phtha	alale			NE		uarl.	. 1	10.0	EPA 525	3/30/2002	bп	W\$32797
4-Chlarophe	nyi phenyi athe	•		NC		nb.f		10.0	EPA 625	3/30/2002	bn.	W332797
Fluorene				NIC		ug/L	1	10,0	EPA 625	3/30/2002	bп	W\$32787
4.6-Cinlbo-2	-methylphenol			ND		ما <b>نو</b> ن	. 1		EPA 628	3/30/2002	bn	WS3ZTGT
N-Nitroso-dip				ND		ug/L		10.0	EPA 625	3/90/2002	þα	W\$32797
	hydrazire as A	especies en	na .	ND		<b>ນ</b> ອູ'ໄ			6PA 625	3/30/2002		W\$32797
_	nyi phenyi stre			ND		ala,r			EPA 625	3/39/2002		W\$\$2797
Hexastlered				ND		ug/L			EPA 625	3/30/2002		W\$32797
Pentachloro				No		ugiL			EPA 625	3/30/2002		W532797
				- 1		-9-	•				-	

Labe: A202162

Page 3 of 6



Environmental and Analytical Services - Since 1964

Cilent: West Basin Municipal Water District Project Name: West Basin Water Red, Plant Report Date: Friday, April 05, 2002

### **CERTIFICATE OF ANALYSIS**

Lab#: A202182-005

Sample ID: Discharge

Matrix: Sea Water

Sampled By: T. Abegundo'T. Tren

Date: 3/27/2002

Time; 9:35 Source: R & O

Parameter'	Result 1	Plag Units	Distrien Factor	RL Method	Anniyzed	Worksheet f
Physical	ND	- Jugu	1	10.0 EPA 625	3/30/2002 bh	W932797
Anthracene	ND	ug/L	1	10.0 EPA 625	3/30/2002 bn	WS32797
di-n-Butyl phitolole	ND	ug/L	1	10.0 EPA 825	2/30/2002 bn	WS32797
Fluoranthene	ND	ug/L	1	10.0 EPA 625	3/30/2002, pn	WS32797
Renzidero	ND	ug/L	1	10.0 EPA 625	3/30/2002 bh	W532797
Руголо	ND	ug/L	1	10.0 EPA 629	3/36/2002 bn	WS32797
Sutyl benzyl phinelate	ND	ugit	1	10.0 EPA 825	3/30/2002 tm	W532797
3.3'-dict/loroberzzdine	МĎ	upu/L	1	10.0 EPA 625	3/30/2002 bn	VV532797
ble (2-Ethyfreigi) ahthalate	MD	ug/L	i	10.0 EPA 626	3/30/2002 be	W\$32797
Bertzo (a) Anthrecene	MD	տայի	1	10.0 EPA 625	3/3/0/2002 be	W932797
Chrysene	ND	ug/L	i	10.0 EPA 625	3/30/2002 bn	W932797
d-ri-Octy shihalate	ND	ug/L	1	10.0 EPA 825	3/30/2002 bn	VV932767
Benzo (b) Fluoranthena	NO	ug/L	1	10.0 EPA 625	3/30/2002 bri	W632797
Benzo (k) Fluoranthena	ND	ug/L	•	10.0 EPA 825	3/30/2002 pn	W\$32787
Benzo (a) Pyrene	ND	ug/L	1	10.0 EPA 825	3/30/2002 bn	W\$32787
Indene (1,2,3-cd) Pyrene	ND	ug/L	•	10.0 EPA 625	3/30/2002 tm	VVS3279T
Dibenzo (Bh) Arimmoses	ND	var.	•	10.0 EPA 625	3/30/2002 bn	W\$32797
Benzo (g.h.) Perylene	ND	ugit.	1	10.0 EPA 625		VV832797
Tentationly Identified Compounds	See attached		†	EPA 625	3/30/2002 bn	W872797
Prep. 5PA 908 Date: 4/2/200	)2 By 1	TH.JL				
Alcric	ND.	ug/i,	1	5.10 EPA 608	4/4/2002 loc	WS32962
alpha-3HC	ND	re/L	t	0.10 EPA 608	4/4/2002 kis	W£32682
aeta-BHC	ND	ug/L	•	0.10 EPA 608	4/4/2002 kk	WS32982
deha-BHC	ND	ugit	1	0.10 EPA 608	444/2002 kg	W\$32982
gemma-BHC (lindane)	NO	_	i	0.10 EPA 603	4/4/2002 lot	W\$32682
4,4-000	ND	Lg/L	i	–		
4.4'-00E	70	Light.	;	0.10 EPA 608	4/4/2002 kk	WS32982
4.4'-DDT	ND	uga.	_	0.10 EPA 608	4/4/2002 kk	W\$32982
Dietom	,ND	UUL		0.10 EPA 608	4/4/2002 KK	WS32982
Sidokdfan i		ாக்ர	•	0.10 EPA 608	4/4/2002 MX	W532982
Endesdien (I	ND	rair.	1	0.10 EPA 606	4/4/2002 lik	W832962
Endosoffen suffate	ND	ugiL	5	0.10 EPA 608	4/4/2002 lox	W532982
	ND	og/L	1	0,10 BPA 608	4/4/2002 kk	W\$32052
Endrin Cadan al fabrica	ND	u <b>g</b> iL	1	0.10 EPA 608	4/4/2002 ldt	W332682
Endry sidehyde	ND	υ <b>φ</b> ί.	1	0.10 EPA 608	4/4/2002 kg	W\$32982
Heplachics	ND	ogst.	1	0.10 EPA 608	4/4/2002 lot	M2118E2
Haptachlor aposide	ND	աց⁄ե	1	0.10 EPA <b>606</b>	4/4/2002 kv	WS32982
Methoxychian	ND	<b>ug</b> /L	1	0.10 EPA 808	4/4/2002 NK	WS32882
Toxaphene	ND	ug/L	1	1.50 BPA 608	4/4/2002 kk	WS32062
Chrordene	ND	ug/L	1	0.60 EPA 608	4/4/2002 kk	WS33963
Arodar-1016	ND	wg/L	1	1.00 EPA 608	4/4/2002 kit	W\$32882
Aregier-1221	ND	սցվե	1	1.00 EPA 608	4/4/2002 ldr	W\$32082
Arodor-1232	ND	ug/L	1	1.00 EPA 808	4/4/2002 NX	W532982
Arocior-1242	ND	or the contract of the contrac	i	1.00 EPA 508	4/4/2002 kit	VVS31982
Arodon-1248	ND	ug/L	1	1.00 EPA \$08	4/4/2002 kk	W\$32962
Lab#: A202162						Bank 4 -44
						Page 4 of 6



Environmental and Analytical Services - Since 1964

Client: West Back Municipal Water District Project Name: West Basin Water Res. Plant Report Date: Friday, April 05, 2002

### CERTIFICATE OF ANALYSIS

Lab#: A202162-005

Sample ID: Discharge

Matrix: See Waler

Sampled By: T. Abegunde/T. Tran

Date: 3/27/2002

Time: 9:35

Source: R & D

Parameter	Result Flag	Ollution Units Factor	FU. Method	Analyzed	Warishhad #
Arodor-1254	ND	ug/L 1	1.00 EPA 606	4/4/2002 kk	W\$32982
Arodor-1250	ND	ug/L 1	1.00 EPA 608	4/4/2002 kk	W\$32982

\_\_\_\_\_

### Flags for Dala Qualifiers:

B = Compound detected in the blank. Sample regult equal or test than 10 times the concentration in the biguid.

ELAP # 1132

LACSD # 10143

- J = Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Pretical Quantitation Limit (PQL).
- H = Gadmaned value, result over the calibration range
- R = Result is suspect. LCS recovery greater than the upper control limit.
- L = Result is suspect, LCS recovery lower than the control limit,
- Q = QC result out of acceptance limits.
- T = Trace detection, detected but below the recording three.

### . Males:

The Chara of Custody document is part of the analytical report.

Any remaining sample(s) for testing will be disposed of one month from the final report date unless other arrangements are made in advance. All results are expressed on well weight bases unless specified.

Ruin Reporting Limit.

ND = Not detected, below the reporting limit.

SVb = Subtantracted analysis, onglinal report englises.

Lab#: A202182





Environmental and Analytical Sorvicus - Since 1964

Client:

West Basin Municipal Water District

17140 South Avaion Blvd., Suite 210

Carson, CA 90746-1218

Report Date: April 5, 2002

Lab# A202162 (4-5)

Attn.: Ms. Cheryl Ross

(310) 660-6246 FAX (310) 217-2414

Date Rec'd: March 27, 2002

Sample:

Sea Waters taken on 3/27/02 by T. Abegunde and T. Tran.

Project:

West Basin Water Reclamation Plant / R & D

Investigation:

Tentatively Identified Compounds

### Addendum Report

A202164-004 "Influent"

EPA Method 624: (Tentatively Identified Compounds)

Compound	Est. Concentration				
Carbon Dioxide	270 ug/L				
Sulfur Dioxide	23 ug/L				

### EPA Method 625: (Tentativley Identified Compounds)

Compound	RT	Est Conc. ug/L	Q value	CAS#
2-Hydroxy-2-methyl- propanoic acid 2-Ethyl-4-methyl	7.18	0.99	9	594-61-6
1,3-Dioxolane	8.65	2.7	50	4359-46-0

Page 1 of 2



Weck ID# A202162 (4-5) Page 2 of 2

A202164-005 \*Discharge\*

EPA Method 624; (Tentatively Identified Compounds)

Compaund	Est. Concentration
Carbon Oloxide	310 ug/L
Sulfur Dioxide	230 ug/L

EPA Method 625: (Tentativley Identified Compounds)

Compound_	RT	Est Conc. Ug/L	Q Value	CAS#
2-Hydroxy-2-methyl- propanoic acid 2-Ethyl-4-methyl-	7.16	0.34	1	594-61-6
1,3-dioxplane	8.64	0.66	38	4359-46-0

## Sea Water Desalination

West Basin Municipal Water District

Southern California's Imported Water

### **Water Supply**

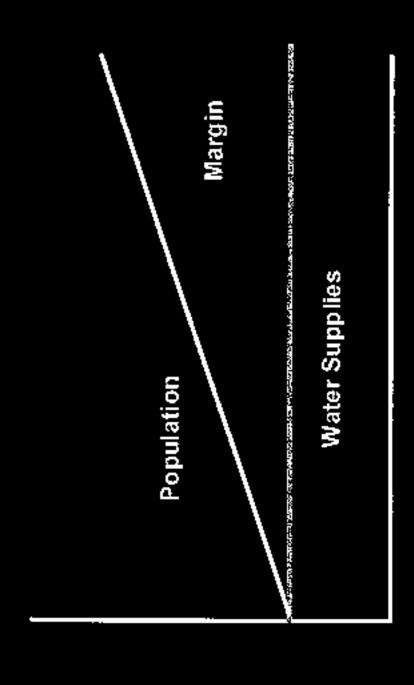
### Imported (66%)

- Northern California
- Colorado River

### Local Water (34%)

- Groundwater
- Water Recycling
- Conservation
- Sea Water Desalination (potential)

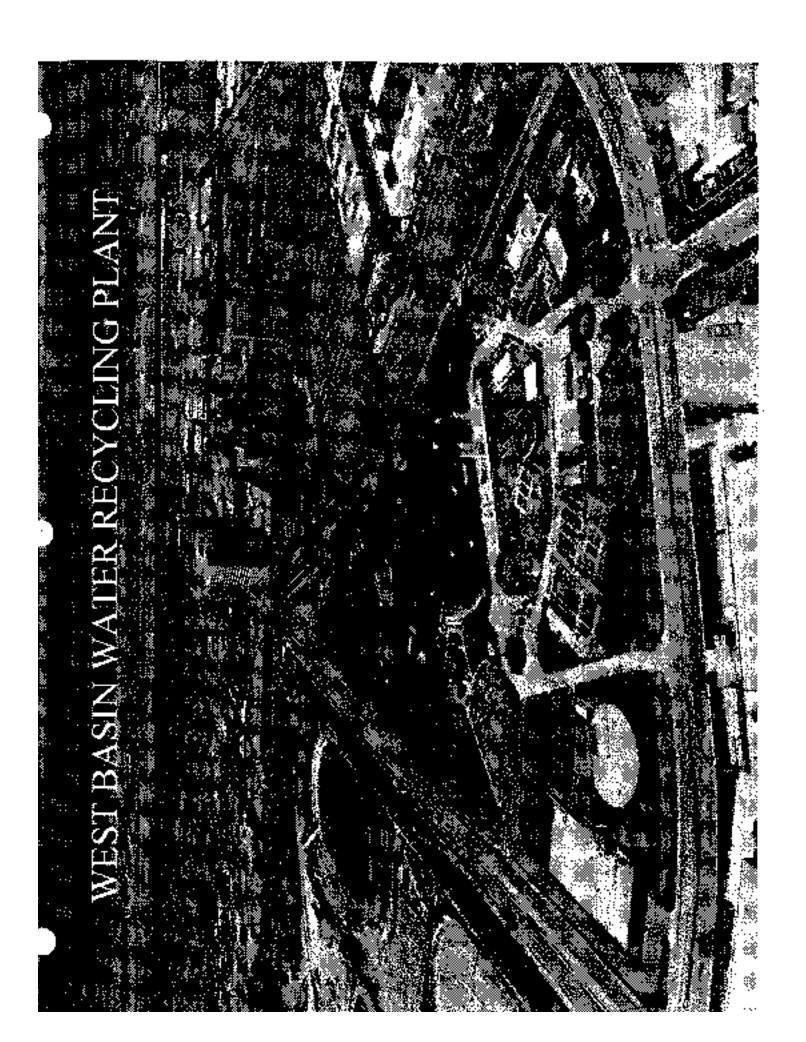
## Future Water Supplies



## Local Water Supply

### Benefits

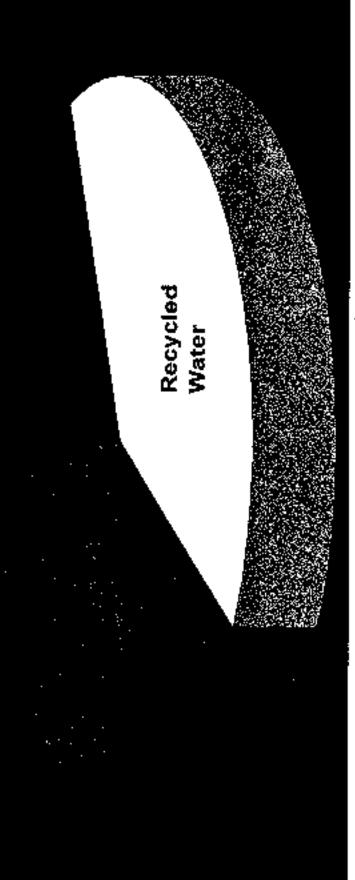
- Provides a local, dependable water supply
- Reduces need to import water from Northern California
- Solution" of reducing imported water Contributing to "Statewide Water



# West Basin Water Recycling Plant

Program Goal: 70,000 AFY Recycled Water by 2020

Replace 1/2 of Imported Water with Recycled Water



## "Custom Designed Water"

5 Qualities Depending on the Customer Uses:

1. Tertiary

Irrigation

2. Nitrified

Cooling Tower

3. Stabilized RO

GW Injection

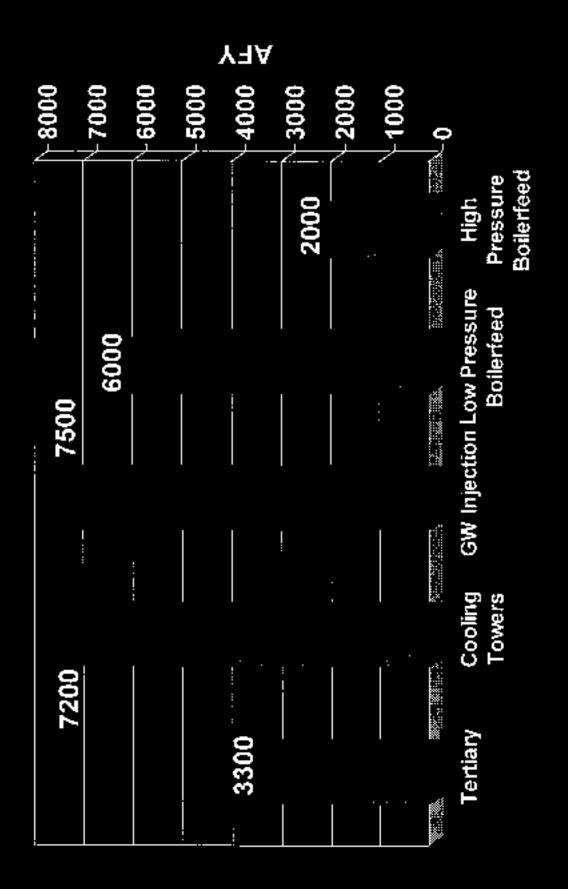
. Unstabilized RO

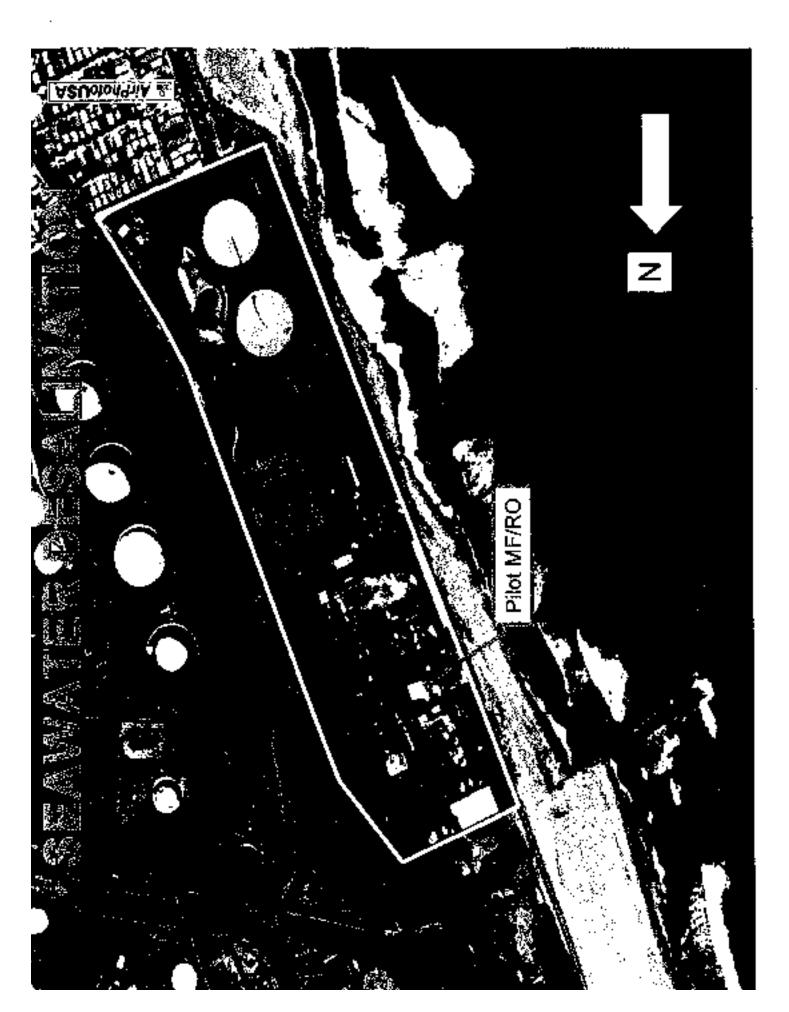
Low Pressure Boiler Feed

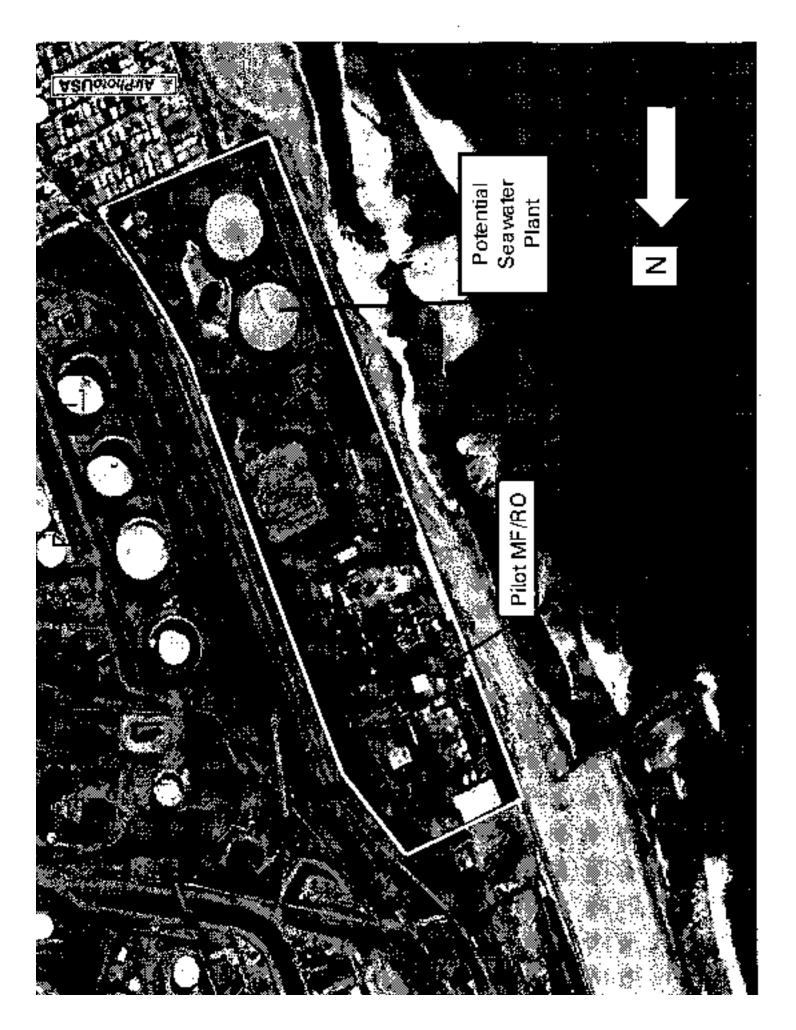
5. 2nd Pass RO

High Pressure Boiler Feed

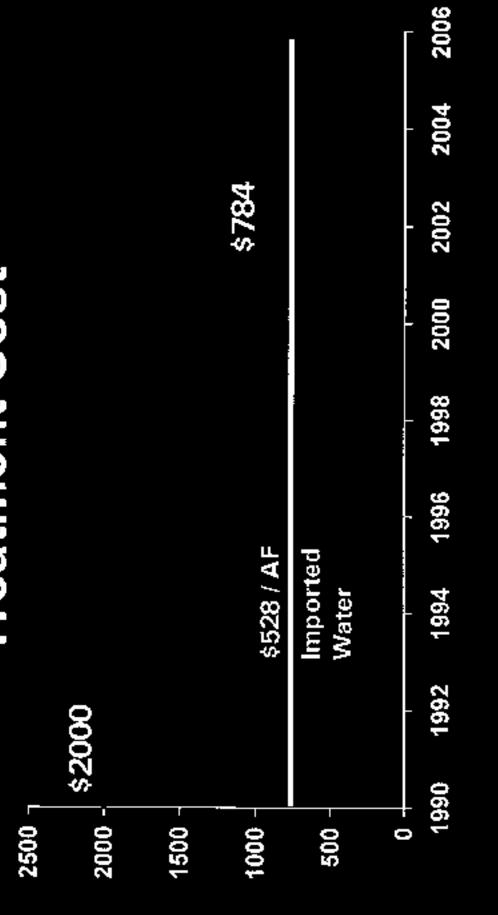
# **Custom Designed Recycled Water**







### Seawater Desalination Treatment Cost



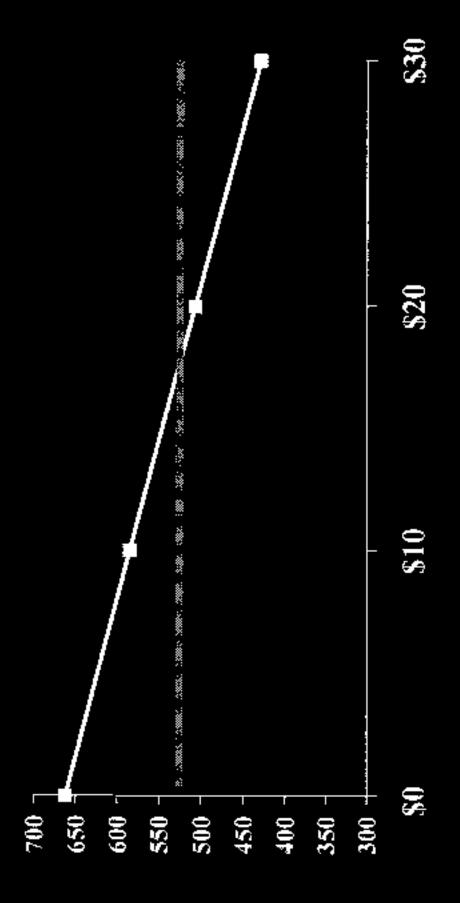
# Potential Cost Reductions

- Energy
- O&M Cost
- · Capital Grants
- Capital Cost
- Increase Plant Size
- Increase MWD Subsidy

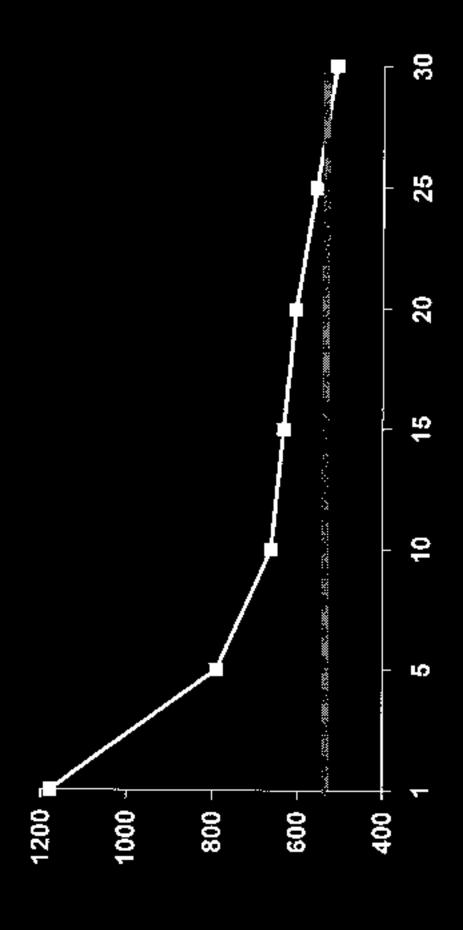
# Seawater Desalination Cost

VS.

## **Capital Grants Received**

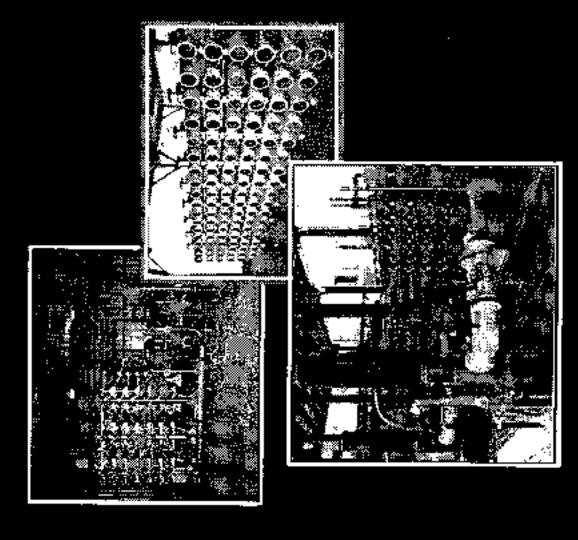


### Seawater Desalination Cost **Freatment Plant Size** VS.



### Reverse Osmosis Desalination Experience West Basin Municipal Water District

- First installation in 1993 for potable water production
- Currently over 20 mgd RO capacity in operation
- Leader in use of Microfiltration as pretreatment with active research program



### WBMWD Hosted - Research **Technical Experts (5/01)** Workshop with Various

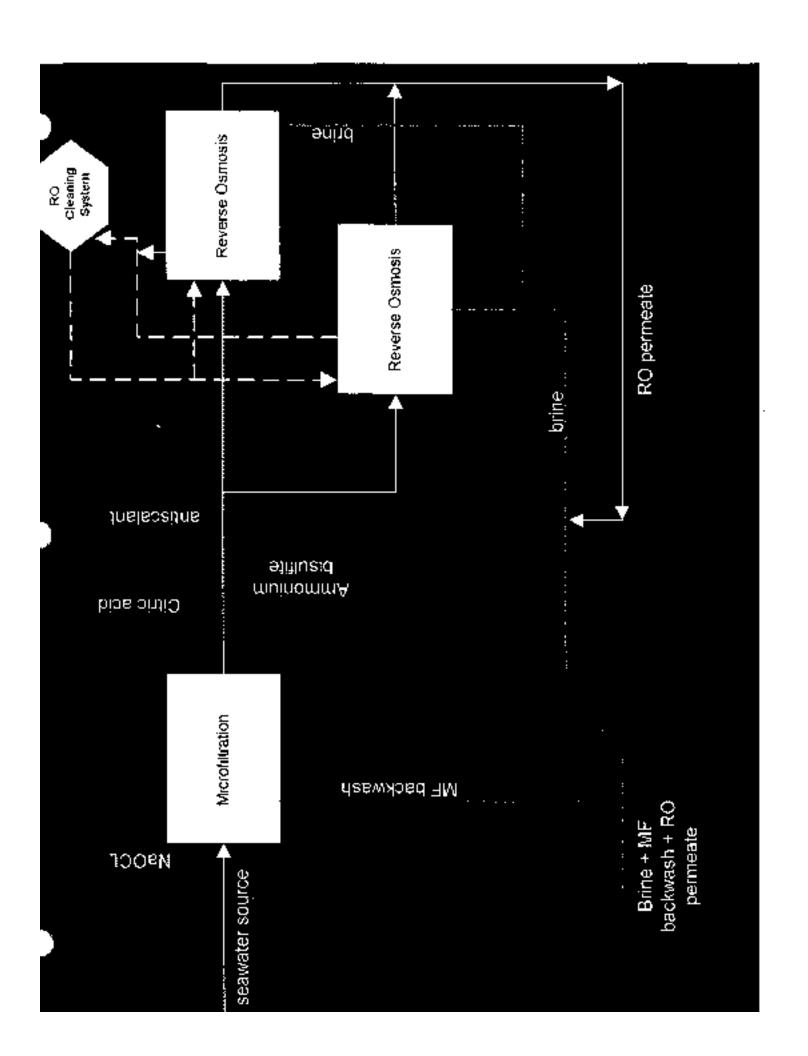
Highest Research Needs

Water Quality

Process Pre-Treatment

### Sea Water Desalination WBMWD's Approach:

- Seawater Pilot Plant
- Regional Approach
- Seeking local, state, and federal support
- Research and Education
- Demonstration project from 1 to 10 mgd



## Operational Research

- USBR, NWRI Awarded ~\$250,000
- **Build Pilot Plant**
- Obtain Operations/Cost Information

## Water Quality Research

- AWWARF Awarded \$350,000
- Financial Support from: WBMWD, Tampa, LADWP, Calleguas
- Technical Support from: MWD and City of Long Beach

# Water Quality R&D Objectives

- Effects of source water quality
- Water Quality Performance goals
- Treatment costs
- Brine disposal assessment

## Additional R&D Efforts

- source water quality and variations
- effects of pre-treatment
- corrosion control
- distribution system compatibility
- taste and odor and consumer acceptance
- temperature effects, including re-growth

# Future R&D Partners & Goals

- Research
- Full Pipe Loop Corrosion Control
- Pathogen Challenge Test
- Microbial Re-Growth
- Specialty Water Quality Analyses
- Possible New Partners
- Avocado Farmers Association
- San Diego County Water Authority
- DWR
- South Florida Water Management District

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328 W. 4th Street, Shift: 200, Los Angeles, Calcièrnia 90015 Phone (213) \$76-6600 | FAX (213) \$75-6600 | - Internet Address: http://www.swieb.ca.gov/r/sqcb4

April 12, 2004

Mr. Richard Nagel Water Quality Manager West Basin Municipal Water District 17140 S. Avalon Blvd., Suite 210 Carson, CA 90746-1296

PIPE LOOP CORROSION STUDY ASSOCIATED WITH SEAWATER DESALINATION PILOT PLANT OPERATION - WEST BASIN MUNICIPAL WATER DISTRICT (LOCATION: EL SEGUNDO GENERATING STATION)

Dear Mr. Nagel:

Thank you for your letter dated April 5, 2004, Informing the Regional Water Quality Control Board (Regional Board) of your plans, and seeking Regional Board's approval to conduct a pipe loop study. The study is designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel and brass).

Three blends of water will be tested: 1)100% stabilized RO permeate; 2) 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water; and 3) 100% MWD water. Each metal type and water source will be tested in triplicate resulting in a total of 27 pipe loops, each with a volume of approximately one liter of water. The total flow that will result from the study will be 1620 gallons per day. The water will be sent to a retention basin located at the El Segundo Generating Station (ESGS) and ultimately discharged with the cooling water (regulated under NPDES permit CA0001147, CI-4667),

The quantity of loop study water discharged is relatively small (the minimum condensor coolent flow is approximately 100 million gallons per day, and this will contribute 0.000162%) and the leachate containing regulated metals, is expected to have little to no detections of metals. We have no objections to the study, and have determined that the operation will not constitute a material change for the NPOES permit issued to the ESGS (CA0001147, CI-4667). Permission is granted to conduct the study for one year (expires on May 31, 2005).

All of the 27 discharge streams (to the retention basin) is required to be monitored on a monthly basis for lead, copper, Iron and zinc. The average dally flow of discharge to the retention basin, and all chemicals (including the type, amount and concentration) that are needed to be added to the proposed study shall be included in the monitoring report that shall be submitted to the Regional Board. All monitoring reports shall be submitted on a quarterly basis and must be received by the dates in the following schedule:



### West Basin Municipal Water District

17140 S. Avalian Hivd • State 210 • Carson, CA 90746-1296 telephone 310-217-2411 • Fax 310-217-2414

April 5, 2004

David Hung Senior Water Resource Control Engineer California Regional Water Quality Control Board, Los Angeles Region 320 W. 4<sup>th</sup> Street, Suite 200 Los Angeles, CA 90013

Dear Mr. Hung

### Pipe Loop Corrosion Study

Per the your recommendation following the meeting with your staff, NRG and ourselves on March 27, 2004, West Basin Municipal Water District's (West Basin) would like to update you on our upcoming pipe loop corrosion study at the Desal Pilot Unit and request concurrence. Attached you will find NRG's approval letter dated January 13, 2004 pertaining to the pipe loop study.

El Segundo Power LLC has permitted West Basin to install and maintain a small-scale seawater desalination pilot plant sited at the El Segundo Power Generating Station since May of 2002, with the cooperation of the Regional Water Quality Control Board. The pilot plant is operated by a consortium of organizations led by Wesl Basin.

As part of the ongoing research into seawater desalination, West Basin has constructed a small distribution system of pipe loops designed to evaluate the effects of reverse osmosis (RO) treated seawater on typical household plumbing materials (copper, galvanized steel, and brass). Three blends of water will be tested: 100% stabilized RO permeate, 50% stabilized RO permeate and 50% Metropolitan Water District (MWD) drinking water and 100% MWD treated surface water. Each metal type and water source will be tested in triplicate to ensure statistically valid effluent results, resulting in a total of 27 pipe loops, each with a volume of approximately 1 L of water. The pipe loops study is being conducted to demonstrate that seawater-derived potable water is stable, non-corrosive, and does not present any health risks.

El **Segundo Power LLC** 301 Vista Del Mar El Segundo, CA 90245 COBA

RO 3B RU 83

January 13, 2004

Paul E. Shoenberger, P.B.
Chief of Engineering & Operations
West Basic Municipal Water District
17140 S. Avaion Boulevard
Suite 210
Carson California, 90746

SUBJECT: Special Handling of Desalination Pilot Plant Metals Discharge

Dear Mr. Shoenberger;

Since May of 2002, El Segundo Power LLC has permitted West Basin Municipal Water District (West Basin) to install and maintain a small-scale (less than 80 gpm) scawater desalination demonstration pilot plant sited at the El Segundo Power Generating Station. The pilot plant is operated by a consortium of organizations led by West Basin.

We understand that the pilot plant is initiating a corrosion control study that contains a series of metal (copper, galvanized steel, and brass) pipe loops, meant to mimic piping configurations typically found in bousehold plumbing. You have advised us that understanding the behavior of stabilized desalinated seawater in such household materials is critical to the successful development of seawater-derived potable water supplies, and that equally critical to the development of these supplies is being able to understand and address concentrate discharge from such facilities.

Due to concern over metal concentrations in the discharge, however small for this application, special handling of the discharge for this particular portion of the pilot plant has been provided for. The pipe loop discharge will be sent to a retention basin at the power plant prior to being discharged with cooling water. You have advised us that the pipe loop portion of the pilot plant generates 2,247 milligrams (mg) per day of copper, 3 mg per day of lead, and 204 mg per day of iron. The average volume of the retention basin is 600,000 gallons, and the minimum condenser coolant flow is 98 million gallons per day; thus the resultant metal concentrations from pilot plant operations in the power plant discharge is predicted to be 0.007, 0.000009, and 0.0006 micrograms per liner of copper, lead, and iron, respectively. It is expected that the metals loading to the discharge under this operating scenario will produce a negligible and undetectable contribution to the metals discharge of the power plant, and are substantially lower than the 6-month median limiting concentrations of the Regional Water Quality Control Board Ocean Plan.



17160 S. Avalon Blvd • Suite 210 • Carson, CA 50745-1296 celephone 310-217-2411 • fax 310-217-2414

16 June 2004

Mezhar Ali California Regional Water Quality Control Board, Los Angeles Region 320 E. 4th Street, Suite 200 Los Angeles, CA 90013

Dear Mr. Ali:

### Accurate and Reliable Metals Analysis and Reporting in Seawater Matrices

Since May of 2002, West Basin Municipal Water District (West Basin) has been operating an occan water desalination pilot plant at the El Segundo Power LLC plant in El Segundo based upon a Memorandum of Understanding between the two organizations, as well as approval from the Regional Water Quality Control Board (RWQCB).

West Basin appreciates the support of the RWQCB to pursue ocean water desalination. Recent patterns of drought as well as litigation over water rights have illustrated the need to diversify our water supply portfolio for long-term reliability. We feel that ocean water desalination is the key to long term reliability.

As part of the RWQCB's approval of the ocean water desalination pilot plant, waste brine monitoring reports are submitted on a quarterly basis. After reviewing the first three reports submitted (October 14, 2002, January 8, 2003, and April 10, 2003), Wost Basin has learned that the metals date submitted was likely in error based on the following lines of evidence:

 A mass balance applied to select metals, in particular, arsenic, selenium, and copper, based on raw water concentrations and concentrations in the discharge does not equate.

The inductively Coupled Plasma/Mass Spectrometry (ICP/MS) instrument is perhaps the best technique for analysis of trace metals at low levels in water matrices. When using EPA method 200.8, part-per-billion (ppb) level detection limits are obtainable with little interference for many trace metals. Most interferences can

Mazhar Ali California Regional Water Quality Control Board, Los Angeles Region June 16, 2004 Page 2 of 5

easily be corrected for through use of mass flow controllers, internal standards, and proper instrument tuning and operation. Molecular ion interferences in ICP/MS are caused by ions consisting of more than one atom that have the same nominal mass-to-charge ratio (m/z) as the isotope of interest. For example, arsenic, which is quantified at m/z of 75, can be interfered by formation of argon chloride (m/z = 75) in samples with high chloride. These interferences must be corrected for through use of factors applied during data collection. Corrections for most common interferences are included in the ICP/MS methods used at laboratories.

The correction works as follows: the interfering ion (chloride in the example above) is measured at an alternate mass during the analysis. The concentration of the interfering ion is multiplied by a correction factor determined by atomic ratios, and confirmed through spiking studies. This result (interfering ion concentration times correction factor) is subtracted from the result of the element being measured. Corrections must be applied to known interfering ions, but over-use of correction factors will cause additional error in analytical results (brough additive error.

2) The analytical method employed for the analysis of these particular samples has known interferences that are not commonly encountered in drinking water and wastewater matrices, for which the analytical method is typically used.

Only interferences that are expected in the sample matrix tested are corrected for when using method 200.8. At the West Basin, Weck and MWD laboratories, the usual levels of sodium, chloride, and bromine in the waters tested are in a range where they do not interfere with ICP/MS analysis of arsenic, selenium and copper. Seawater has a much higher concentration of sodium, chloride and bromine, so sample dilution was used to lower the concentrations to a level where they do not interfere. No additional correction was applied to the analysis of the discharge samples. Only dilution was used to reduce the interferences.

The arsenic, selenium and copper results of the discharge samples analyzed at the West Basin laboratory were just above the respective detection limits for these elements after the dilution was taken into account. The detection limits were 50 ppb for arsenic, and 100 ppb for both sclenium and copper. The results reported are suspect due to the closeness of the results to the detection limits, and that no additional molecular ion corrections for sodium, chloride and bromine were used.

Table 1 documents these sample results collected for the waste brine monitoring reports. Results were generated by analytical method 200.8 and are in ppb. All other metals were non-detect.

:Mazhar Ali California Regional Water Quality Control Board, Los Angeles Region June 16, 2004 Page 3 of 5

Table 1 Waste Brine Metals Analysis

Metal	6 Aug 2002	19 Nov 2002	26 Feb 2003	Detection Limit*
Arsenic	79	57	<b>6</b> Q :	50
Copper	150	150	129	100
Selenium	260	190	225	100

<sup>\*</sup> After dilution taken into account.

A database being developed as part of this research project contains greater numbers of metals data using analytical techniques developed for scawater matrices that are designed to substantially reduce seawater interferences. This database suggests that the metals data submitted to the RWQCB as part of the waste brine monitoring reports was biased upwards and that actual metals concentrations are much less than what was reported.

Analytical results for the database were originally supplied from the Metropolitan's Water District of Southern California (MWD) water quality laboratory. Early on, MWD reported false positives and also identified some analytes that they were not aquipped to analyze and arranged for analysis by suitable commercial laboratories. Water quality samples for arsenic and selenium collected during this study were first analyzed by Weck Laboratories using the hydride generation pretreatment technique and subsequent ICP-MS. The hydride generation technique removes arsenic and selenium from the seawater and brine matrices prior to analysis on the ICP-MS instrument. Arsenic and selenium concentrations are observed to be in the single-digit microgram per liter range (Table 2). Mercury was also analyzed by Weck using the cold-vapor technique, and was observed to be in the 1/100° of a microgram per liter range.

Table 2
Raw Seawater and Pilot Plant RO Concentrate Metals Analysis

Metal		Std Deviation	% Deviation	Number of
	(ug/L)	(ug/L)		Samples
Arsenic	1.29	0.18	14	21
Selenium	2.60	0.37	14	ר

Once it became clear that metals analysis in high total dissolved solids (TDS) matrices required special attention, method reporting limits (MRLs) (or all metals being analyzed by MWD on behalf of the project were compared to Ocean Plan requirements to assess which metals required special analysis. This proved to be the case for:

Marhar Ali California Regional Water Quality Control Board, Los Angeles Region June 16, 2004 Page 4 of 5

- Arsenic.
- Chromium,
- Copper,
- Lead,
- Mercury,
  - Nickel,
  - Sclenium.
  - Siíver,
  - and Zinc.

Arsenic, mercury, and selenium were already being enalyzed by Weck Laboratories with sufficient accuracy; the remaining metals were sent to Columbia Analytical Services in Kelso, Washington for analysis using a reductive precipitation technique followed by ICP-MS of the re-suspended metals. Several low-concentration detections were obtained using this more sensitive method (Table 3). All concentrations are given in ug/L. Statistics are not given for this data-set because the raw seawater sample set contains only one sample; however, the RO concentrate data set contains four (4) samples.

Table 3
Raw Seawater and Pilot Plant RO Concentrate Metals Analysis

Metal	MRL	Raw Water	80 Concentrate
Chromium	0.2	0.2	0.4
Соррет	0.1	0.4	39
Lead	0.02	0.18	0.11
Nickel	0.2	0.3	1.5
Silver	0.02	0.5	1.5
Zinc	0.5	1	7.3

The metal-concentrations reported using these advanced analytical techniques for seawater matrices exhibit substantially lower concentrations, and concentrations that compare more favorably with the expected seawater metal concentrations reported in the Ocean Plan.

CRG Marine Laboratories, a local laboratory in Torrance, was also determined to use a reductive precipitation technique followed by ICP/MS for seawater analysis to eliminate interferences without using molecular correction factors. Due to the availability of this advanced analytical technique in the local community, and its proven result of more accurate metals analysis, West Basin is now sending all

Mazhar Ali California Regional Water Quality Control Board, Los Angeles Region June 16, 2004 Page 5 of 5

metals samples for the waste brine monitoring reports to CRG. Metals data from the January and April 2004 waste brine monitoring reports are summarized in Table 4 to Elustrate the improved results over those reported in Table 1.

Table 4
Waste Brine Metals Analysis

Metal	15 Dec 2003	4 March 2004	4 March 2004	Detection Limit
Arsenic	1.81	1.38	1.21	0.015
Chromium	1.88	1.83	1.56	0.01
Copper	26.1	1.24	1.17	0.01
Lead	0.64	0.28	0.27	0.01
Mercury	ND	ND	ND	0.01
Nickel	1.23	0.94	0.92	0.01
Selenium	ND	0.07	0.08	0.015
Silver	ND	0.01	0.03	0.01
Zinc	13	8.24	7.13	0.01

In conclusion, West Basin believes that this new analytical method for metals more accurately represents the true concentration of metals present in the desalination pilot plant effluent. West Basin intends to continue using this technique for all future metals samples.

if you should have any questions regarding the change in analytical methods for metals, please feel free to contact me at (310) 660-6210.

Thank, you,

Richard Nagel

Manager of Water Quality



17140 % Awstore Blod \* State 210 \* Carson, CA 90746-1296 telephone 310-217-2411 \* fax 310-217-2414

August 6, 2004

Jonathan Bishop Interim Executive Officer California Regional Water Quality Control Board, Los Angeles Region 320 W. 4<sup>th</sup> Street, Suite 200 Los Angeles, CA 90013

Dear Mr. Bishop

Subject: Request for Time Extension for Seawater Desalination Pilot Project.

West Basin Municipal Water District (West Basin) would like to take this opportunity to thank the Regional Water Quality Control Board (RWQCB) for their collaboration, support, and permission to conduct seawater desalination research. West Basin would also like to thank Et Segundo Power LLC (El Segundo) for allowing us to install and operate a seawater desalination pilot plant at the El Segundo Power Generating Station. West Basin is grateful for the support of El Segundo and for their assistance in coordinating the project into their daily operations, as well as tapping into their site influent as a feed source for the pilot.

West Basin has been operating the pilot since May of 2002, using cold water from the Power Plant's seawater intake line, and returning that flow back into the intake line. This has resulted in no net increase in the amount of ocean water pulled into the Power Plant's site. Research conducted during pilot operations has resulted in determining the optimal operating conditions and cleaning procedures, while also evaluating water quality. Although operating for more than 2-years, the pilot has not consistently run due to operational breakdown, membrane fiber breakage, unit vibration, and membrane oxidation. Except for operational breakdown, which still occurs and is out of our control, these issues have been addressed and the problems corrected.

Now that operational conditions have been well documented, West Basin plans to continue pilot operations on warm water from the Power Plant's effluent rather than the current cold water source from the Power Plant's influent. The goal of this approach is to evaluate the expected energy savings from running seawater desalination on warm water. West Basin anticipates a reduction in energy use and costs as well as a smaller equipment footprint for operating on warm water. Furthermore, a second pre-treatment unit employing ultrafiltration will be brought on site to compare to microfiltration. The

Jonathan Bishop California Regional Water Quality Control Board, Los Angeles Region August 6, 2004 Page 2 of 2

additional unit will require an increased flow rate up to 80 gallons per minute to operate both.

These studies will be conducted in addition to the pipe loop corrosion study that the California Department of Health Services requested to evaluate distribution system water quality. The RWQCB gave approval for this study in April of 2004. Three different blends of water (100% RO permeate, 50% RO permeate-50% imported water, 100% imported water) will be tested through copper, galvanized steel, and brass pipe loops to study the effects of desalinated seawater on household plumbing. The sludy will also investigate taste and odor issues, pipe corrosion, and specialty water quality analyses.

All of these study parameters are estimated to extend through to December 2006. Therefore, based on past support from the RWQCB for seawater desalination, West Basin respectfully requests the RWQCB's permission to operate with the additional flow needs as well as within the requested time extension.

Please contact Jennifer Bender at 310-660-6253 with any questions, comments, or concerns. Thank you very much.

Sincerely,

Richard Nagel, P.E. Manager of Water Quality

Enclosures: NRG-West Basin letter of support

Seawater Desalination Pilot Project Description

cc: Audun Aaberg, NRG El Segundo Operations, Inc.

Tim Hernig, NRG Energy, Inc. Marc Kodis, NRG Energy, Inc. Paul Shoenberger, West Basin



# West Basin Municipal Water District

17140 S. Avalon Blvd • Stite 210 • Carson, CA 90746-1296 relephone 310 217-2411 • fax 356-217-2414

September 2, 2004

Jonathan Bishop Interim Executive Officer California Regional Water Quality Control Board, Los Angeles Region 320 W. 4<sup>th</sup> Street, Suite 200 Los Angeles, CA 90013

Dear Mr. Bishop

Subject: Request for Time Extension for Seawater Desalination Pilot Project.

West Basin Municipal Water District (West Basin) would like to take this opportunity to thank the Regional Water Quality Control Board (RWQCB) for their collaboration, support, and permission to conduct seawater desalination research. West Basin would also like to thank El Segundo Power LLC (El Segundo) for allowing us to install and operate a seawater desalination pilot plant at the El Segundo Power Generating Station. West Basin is grateful for the support of El Segundo and for their assistance in coordinating the project into their daily operations, as well as tapping into their site influent as a feed source for the pilot.

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Now that operational conditions have been well documented, West Basin plans to continue pilot operations on warm water from the Power Plant's effluent (Conduit 2) rather than the current cold water source from the Power Plant's influent. The goal of this approach is to evaluate the expected energy savings from running seawater desatination on warm water. West Basin anticipates a reduction in energy use and costs as well as a smaller equipment footprint for operating on warm water. Furthermore, a second pre-treatment unit employing ultrafiltration will be brought on site

Jonathan Bishop California Regional Water Quality Control Board, Los Angeles Region September 2, 2004 Page 2 of 2

to compare to microfiltration. The additional unit will require an increased flow rate up to 80 gallons per minute to operate both.

These studies will be conducted in addition to the pipe loop corrosion study that the California Department of Health Services requested to evaluate distribution system water quality. The RWQCB gave approval for this study in April of 2004. Three different blends of water (100% RO permeate, 50% RO permeate-50% imported water, 100% imported water) will be tested through copper, galvanized steel, and brass pipe loops to study the effects of desalinated seawater on household plumbing. The study will also investigate taste and odor issues, pipe corrosion, and specialty water quality analyses.

All of these study parameters are estimated to extend through to December 2006. Therefore, based on past support from the RWQCB for seawater desalination, West Basin respectfully requests the RWQCB's permission to operate with the additional flow needs as well as within the requested time extension,

Please contact Jennifer Bender at 310-660-6253 with any questions, comments, or concerns. Thank you very much.

Sincerely,

Richard Nagel, B.€

Manager of Water Quality

Enclosures: NRG-West Basin letter of support

Seawater Desalination Pilot Project Description

cc: Audun Aaberg, NRG El Segundo Operations, Inc.

Tim Hemig, NRG Energy, Inc. Marc Kodis, NRG Energy, Inc. Keith Richards, NRG Energy, Inc. Paul Shoenberger, West Basin

Main: ( Fax: (

(760) 268-4000 (760) 268-4017

### SEGUNDO POWER LLC

LCC. DENNISSER BENE

August 20, 2004

Mr. Paul Shoenberger Chief of Engineering and Operations West Basin Municipal Water District 17140 S. Avalon Blvd, Suite 210 Carson, CA 90746

SUBJECT: West Basin Municipal Water District (the "District") Seawater Desalination Pilot Plant (the "Pilot")

Dear Mr. Shoonberger:

Since May of 2002, the District has maintained the Pilot sited at the El Segundo Power Generating Station ("Station"). The written concurrence for the project issued by the Regional Water Quality Control Board (the "Board") determined that the Pilot operation does not constitute a material change for the Station's existing National Pollutant Discharge Elimination System ("NPDES") permit issued by the Board to the Station. The Board's written concurrence provided for Pilot operation through January, 2005 for a 30 gallon per minute ("gpm") plant.

The District desires to continue the operation of the Pilot beyond January, 2005, to expand Pilot operations, and to approach the Board for a revised concurrence letter. District staff and its consultants have advised us that the District desires to extend Pilot operations to December 2006 and to modify Pilot operations as follows:

- adding a Zenon Ultrafistration (UF) unit to operate in parallel with the existing microfiltration (MF) unit within the current footprint
- an additional 100 amps of 480 VAC 3ph 60Hz power
- adding a new self-priming feed pump and feed line to the site to increase Pilot feed to 80 gpm
- switching Pilot source water from the Station intake to the Station outfall to demonstrate desalination from warm discharge water
- excavation (subject to Station management approval) to finalize an appropriate warm water sampling location
- evaluating the use of chlorine dioxide and ultraviolet radiation for biofouling control

District staff has advised us that these proposed operational changes, in combination with the pipe loop corrosion study that recently started, will also cause a change in the chemicals used at the Piiot. An estimate of the revised chemical usage includes:

# Used Continuously/Semi-Continuously

The following chemicals are proposed to be used on a regular basis and discharged (theroughly mixed with return seawater) into the outfall forcbay

- Sodium Hypochlorite (for MF/UF backwash only) = 7 gallons per month.
- Sodium Bisulfite 7! gallons per month
- Reverse Osmosis Antiscalant Nalco Permatreat 191 3 gallons per month
- Calcium Hydroxide –[quantity to be determined]

# Used As Needed for Periodic Cleaning

The following chemicals will be used as needed for cleaning and will be drommed and taken off-site for disposal

- Citric Acid—18 pounds per month.
- Sodium Hypochlorite <1 gallon per month.</li>
- Betz Dearborne KLEEN MTC 411 8 pounds per month.

Although Pilot intake flow will increase to 80 gpm (115,200 gallons per day ("gpd")), the flow ratio between Station and Pilot operations will be less than 0.06% or a 1 to 1,600 blend ratio (115,200 gpd to 200,000,000 gpd).

From this description, it does not appear to us that there will be any material impact on the Station's existing NPDES permit. We are willing to permit Pilot operations to continue and expand as provided above, and consistent with, and subject to, the existing ficease granted by El Segundo Power, LLC to the District for use of the property at the Station; provided, however, that the District first obtain written concurrence from the Board for the specifics noted above, before work is initiated; and provided further that El Segundo Power, LLC may terminate this extension upon sixty days prior written notice.

We look forward to a continued cooperative relationship with the District during the course of its seawater desalination research effort.

Very only yours,

David Lloyd Secretary

CG:

(760) 268-4069

Fax (760) 268-4017

WWW

Audun Aaberg, Tim Hemig, Keith Richards, Marc Kodis



# West Basin Municipal Water District

17140 S. Avalon Blvd • Sinte 210 • Carson, CA 90746-1296 telephone 310-217-2411 • faa 310-217-2414

September 2, 2004

# West Basin Municipal Water District Seawater Desalination Pilot Project

In 2002, West Basin Municipal Water District (West Basin) launched a seawater desalination pilot project to study the latest technology in ocean water desalination. The project is located at the El Segundo Power Generating Station and employs microfiltration (MF) pretreatment followed by reverse osmosis (RO).

In the 2-years of operation, the pilot plant has proven that desalinated ocean water is a realistic consideration. The project has also optimized the MF operating conditions to include membrane flux, backwash procedure, and clean in place procedures. The RO membranes have been operationally tested at various flux rates, while the RO concentrate and MF backwash streams have been analytically characterized. Design parameters have also been developed.

The project has also evaluated various source water qualities, investigated the effects of pretreatment on water quality, researched case studies, and characterized brine quality. The recently initiated pipe loop corrosion study aims to evaluate corrosion control, taste and odor issues, and will include specialty water quality analyses.

The pilot plant currently pumps 28 gallons per minute (gpm) from the Power Plant's ocean water cooling system, and ultimately produces 8.8 gpm of fresh water. The difference is produced as concentrate, used in the system process, or held in a break tank to continually feed the RO unit.

Pllot plant operations are now estimated to continue through December 2006 with several proposed project changes. The pilot plant will switch to running on a warm water feed source from the Power Plant outfall (Conduit 2) instead of the current cold water source. This will study the possibility of lower energy costs needed to desalinate the water, a possible smaller footprint needed, environmental benefits of no additional intake water, and also evaluate the effects of warm water in the distribution system.

to addition, a second pre-treatment unit will be brought on site to test out ultrafiltration (UF) technology. With the addition of a second unit, intake flows will increase to 80 gpm. Finally, the use of chlorine dioxide and ultraviolet radiation for biofouling control will be evaluated on the warm water. The proposed expansion of this project is in addition to the pipe loop corrosion study currently in progress.

Chemicals used and discharged on site will now include:

- Sodium hypochlorite (for MF/UF backwash only) = 7 gallons per month.
- Sodium bisulfite 71 gallons per month.
- Reverse osmosis antiscalant Nalco Permatreat 191 3 gallons per month
- Calcium hydroxide

With the expanded intake flows (80 gpm or 115,200 gallons per day [gpd]), the flow ratio between the Power Plant operations and the seawater desalination pilot plant will be less than 0.06% or a 1 to 1,600 blend ratio (115,200 gpd to 200,000,000 gpd).



#### Executive Office



Arthur G. Baggeri Jr., Chair (2011) Street • Sacconsonto, Cliddrenta 95814 • 1915) 341-5695 Alarting Address 19.0. Box (00 • Sacrazionto, Cridi enia • 95812-0100 Fax (916) 341-3621 • http://www.swrcb.ca.gov

### VIA EMAIL

TO: Regional Board Executive Officers

IsI

FROM: Celeste Cantú

Executive Director

EXECUTIVE OFFICE

**DATE:** February 24, 2004

SUBJECT: INCIDENTAL RUNOFF OF RECYCLED WATER

This memorandom transmits State Water Resources Control Board (State Board) staff recommendations regarding regulatory management of incidental runoff. Incidental runoff refers to small amounts of runoff from intended recycle water use areas, over-spray from sprinklers that drifts out of the intended use area, and overflow of ponds that contain recycled water during storros. This discussion is limited to recycled water that has received tertiary filtration for pathogen removal as specified under Title 22.

### Background

The State Legislature established the California Recycled Water Task Force (Task Force) in 2001. The mission of the Task Force was to evaluate the current framework of State and local rules, regulations, ordinances, and permits to identity opportunities for and obstacles to the safe use of recycled water in California. The Task Force consisted of 40 members representing State and local regulatory agencies, water and wastewater utilities, environmental groups, and federal resource agencies. The chairman of the Task Force was Richard Katz, who is also a State Board member.

In June 2003, the Task Force completed its review and issued its final report, titled "Water Recycling 2030, Recommendations of California's Recycled Water Task Force." Recommendation 4.2.1 of the report states that the State Board should convene a committee to review the legal requirements of federal and State statutes and regulations that relate to the regulation of incidental runoff of recycled water to determine the regulatory and enforcement options that are available to the regional boards. A stakeholder committee was convened in December 2003 for this purpose. Many of the committee's recommendations are included in this memorandum.

### Framework for Regulation of Incidental Runoff

The Water Code defines recycled water as "water, which, as a result of treatment, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource" (Water Code section £3050(n)). A legislatively established objective is to use recycled water in place of tresh water to assist in meeting the future water requirements of the State. To implement this objective, the California Water Code has a stated goal of recycling one million acre-feet of water per year by 2010. The Water Code also states that the use of potable domestic water for non-potable uses, including, but not limited to, cemeteries, golf courses, parks, highway landscape areas, and industrial and irrigation uses, is a waste and unreasonable use of water if recycled water is available that meets specified conditions for its use.

In order to avoid nuisance problems, recycled water applied for irrigation is intended to remain on the irrigated areas. Nonetheless, while incidental runoff or over-spray of minor amounts of recycled water can be minimized, it cannot be completely prevented. Similarly, it is not possible to entirely prevent the runoff of rainwater from areas irrigated with recycled water or from decorative or storage ponds littled with recycled water, particularly during major storm events. The Task Force Report notes, however, that in some instances regional boards assume that any amount of incidental runoff requires the regional board to treat the runoff as a discharge of treated wastewater requiring an NPDES permit (referred to as the "one molecule rule").

This approach is problematic for several reasons. Most importantly, this permitting practice renders the use of recycled water undestrable for many parties. Costomers are not willing to assume the cost and the potential liability associated with either securing an individual NPDES permit or ensuring that no incidental runoff will ever leave the permitted application area. Moreover, this approach does not properly acknowledge that recycled water quality is already regulated by both the regional boards and the Department of Health services, and must meet stringent requirements at the time it is applied to the site. Finally, the prohibition approach blurs the distinction between wastewater and recycled water that has been repeatedly recognized by the Legislature.

To further the goal of maximizing the use of recycled water, the water quality laws should be interpreted in a manner that is consistent with the intent of the Legislature to promote recycled water use. Consequently, incidental runoff from recycled water projects should be handled as follows:

Where reclamation requirements prohibit the discharge of waste to waters of the State and
discharges are not expected to occur, occasional runoff should not trigger the need for
either an individual NPDES permit or enforcement action.

- 2 If discharges from a reclamation project area occur routinely, such discharges can be regulated under a municipal storm water NPDES permit in most cases.
- In limited cases, where necessary to address a water quality concern, discharges of recycled water to surface waters may be regulated under an individual NPDES permit. An NPDES permit, however, should not be issued unless necessary to achieve water quality objectives.

Generally, parties using reclaimed water will want to operate in such a way as to avoid the need for an individual NPDES permit. The discussion below describes the framework for regulating incidental runoff from irrigation systems and from storage ponds without issuing such a permit.

# Incidental Runof( Associated with Recycled Water Irrigation.

Recycled water use facilities should be designed and operated to avoid runoff to waters of the State. The regional boards should work with recycled water users to help them achieve this goal. Nonetheless, incidental runoff is likely to occur at many facilities. Consequently, regional boards should include the following language in water recycling requirements.

The incidental discharge of recycled water to waters of the State is not a violation of these requirements if the incidental discharge does not unreasonably affect the beneficial uses of the water, and does not result in exceeding an applicable water quality objective in the receiving water."

The language is modeled after the language included in the Master Reclamation Requirements. issued by the San Francisco Bay Regional Board.

### Releases from Recycled Water Ponds

A principal water quality concern with recycled water points is the presence of locally added. pollutants, such as fertilizers and algaecides. These same issues exist with potable water ponds.

Recycled water pends should be designed and operated not to spill during dry months. Spills should be prohibited during these times. Generally, wet weather regulatory strategies that do not require individual NPDES permits fall within the following categories.

- The recycled water pond is designed not to spill during wet months. Under this circumstance, spills that occur under extreme weather conditions or emergencies should not be considered for enforcement.
- Recycled water ponds can be drained and refilled with potable water or flushed with: potable water prior to the onset of the wet season. Flushing will not displace all of the recycled water but the water quality threat is minimal.

3. Recycled water ponds designed to spill recycled water during the wet season can be regulated under Phase 1 municipal storm water permits or under a general storm water permit. These permits require reduction of pullutants to the maximum extent practicable. The permits also incorporate receiving water limitations requiring the implementation of an iterative process for addressing any exceeding of water quality objectives.

Thank you for your attention to this memorandum. If you have questions, please contact me at (916) 341-5615.

# Section 10.0 Request For Schedule to Submit Information For Rule 316 (b) Phase II Compliance

Phone: 310.615.6387 FAX: 310.615.6060

### September 23, 2004

John Bishop, P.E.
C/O California Regional Water Quality Centrol Board
Los Angeles Region
ATTN: Technical Support Unit
320 W 4th Street, Soite 200
Los Angeles, CA 90013

# RE: Request for Schedule to Submit Information to Comply with the Phase ![ 316(b) Rule (40 CFR Part 125 Subpart J)

Dear Sir.

By this letter El Segundo Power, LLC (ESP) requests a schedule for submitting the information required by EPA's new Phase II 316(b) Rule for cooling water intake structures for the El Segundo Generating Station (ESGS). For the reasons to be presented in the following letter, ESP requests your approval to allow the information required by 40 CFR 125.95 to be submitted to you no later than January 7, 2008. In our circumstances, this date is as "expeditious as practicable." The basis for our request is explained below.

As you know, on July 9, 2004, EPA published its final rule prescribing how "existing facilities" may comply with Section 316(b) of the Clean Water Act. 69 Fed. Reg. 41575, 41683 (July 9, 2004). For most existing faculties, this rule will require a large amount of data to establish "best technology available" for the facility's intake structure and to demonstrate compliance with the rule.

ESGS is a "Phase II existing facility" within the meaning of 40 CFR 125.91. As such, it is required to comply with the Phase II rule, and in particular to submit the studies and information required by 40 CFR 125.95.

Section 125.95 of the new rule requires detailed studies and other information to establish what intake structure technology or other measures will be used to comply with the rule. Ordinarily this material is to be submitted with the facility's next application for renewal of its NPDES permit. See 40 CFR 125.95, 122.21(r)(1)(ii), 122.21(d)(2). For permits that expire less than four years after the rule was published on July 9, 2004 (that is, before July 9, 2008), the facility may have up to three and balf years to submit the information, so long as it is submitted "as expeditiously as practicable." See 40 CFR

Page 2 September 23, 2004

125.95(a)(2)(ii). The facility may have even longer, until the end of the permit term, under 40 CFR 122.21(d)(2)(i), if the permitting agency agrees.

The current NPDES permit for ESGS expires on May 10, 2005, well before July 9, 2008. Therefore, ESP hereby requests that you authorize the information called for by 125.95 to be submitted as expeditiously as practicable, which, as explained below, will require until January 7, 2008.

In order to satisfy the "expeditiously as practicable" requirement, it should be noted that ESP began the process of collecting the necessary information even before the final rule was published. ESP actually began as early as last year to begin collecting information and conducting internal evaluations on how the, at that time draft, requirements could be complied with at ESGS. Such information collection included preliminary technology assessments and research into existing data and information. ESP has also actively participated in the Los Angeles Regional Water Quality Control Board's (Board) initiation of 316(b) Working Group meetings, including the first meeting held on August 28, 2003, and also by hosting the most recent meeting at our ESGS site on July 12, 2004.

Despite our early efforts, we will still need until January 7, 2008, to complete the studies and collect the information required by 40 CFR 125.95. Our detailed explanation is presented below by first summarizing the significant number of informational requirements that must be submitted and then concludes by presenting the schedule by which the information would be submitted.

### Cooling Water System Data

First, all facilities covered by the Phase II Rule most submit "cooling water system data" as required by 40 CFR 122.21(r)(5). This includes a narrative description of the operation of the cooling water system, its relationship to cooling water intake structures, the proportion of the design intake flow that is used in the system, the number of days of the year the cooling water system is in operation, and the seasonal changes in the operation of the system, if applicable. It also includes design and engineering calculations prepared by a qualified professional and supporting data to support the description of the operation of the cooling water system. See 40 CFR 122.21(R)(5)(i) and (ii). This information must be submitted at the same time as the Comprehensive Demonstration Study as discussed below. See 40 CFR 125.95(a)(2).

### Proposal for Information Collection

Under 40 CFR 125.95(a)(f). ESP must also submit a Proposal for Information Collection (PIC). Preparing the PIC is a large undertaking. The PIC must contain the items ifsted in 40 CFR 125.95(b)(f), including a description of proposed and/or implemented

technologies, operational measures, and/or restoration measures to be evaluated, a list and description of historical studies characterizing impingement mortality and entrainment and/or the physical and biological conditions in the vicinity of the cooling water intake structures and their relevance to the proposed study. For existing data, it must demonstrate the extent to which the data are representative of current conditions and that the data were collected using appropriate quality assurance/quality control procedures. The PIC must also include a summary of past or ongoing consultations with federal, state and tribal fish and wildlife agencies and a copy of their written comments, as well as a sampling plan for any new field studies describing all methods and quality assurance/quality control procedures for sampling and data analysis.

Because of the magnitude and specialized nature of the information to be submitted in the PIC, it is likely that ESP will have to contract with an outside consulting firm to obtain qualified personnel to perform the work and to handle the increased workload. ESP's contractor procurement process has precise steps that must be undertaken to conform to internal policies and procedures and applicable law. Including the time it takes to contract with a qualified consulting firm and to develop the PIC, ESP believes a comprehensive PIC could not be submitted for the Board's review and approval any earlier than August 1, 2005. ESP asks that the Board either approve it or advise us of any needed changes within 60 days as described in Sec 40 CFR 125.95(a)(1), 125.95(b)(1).

### Comprehensive Demonstration Study

The Comprehensive Demonstration Study (CDS), as described in 40 CFR 125.95(b), includes many mandatory sections that require substantial effort and time to develop and submit. Many sections of the CDS require that the information collection process described in the PIC be completed prior to being able to initiate those sections of the CDS. Because the PIC data collection will not be completed entil early 2007, as described below in the Impingement Mortality and/or Entrainment Characterization Study section, much of the CDS will have to be completed during calendar year 2007. This will most likely be a significant time constraint due to the level of work required by the Phase II 316(b) regulation. Below, ESP will describe each section of the CDS in detail, providing ample justification that ESP's proposed complete CDS submission schedule is "as expeditiously as practicable."

### Source Water Flow Information

Because ESGS operates on the Pacific Ocean, no specific source waterbody flow information is required to be submitted. See 40 CFR 125.95(b)(2).

# Impingement Mortality and/or Entrainment Characterization Study

ESP must provide, pursuant to 40 CFR 125.95(b)(3), an Impingement Mortality and/or Entralament Characterization Study. This study must include (i) taxonomic identifications of all life stages of fish, shellfish, and any species protected under federal state, or tribal law that are in the vicinity of the cooling water intake structures and are susceptible to impingement and entrainment; (ii) a characterization of all life stages of fish, shellfish, and any protected species, including a description of the abundance and temporal and spatial characteristics in the vicinity of the cooling water intake structures, based on sufficient data to characterize annual, seasonal, and die, variations in impingement mortality and entrainment (e.g., related to climate and weather differences, spawning, feedings, and water column migration). These may include historical data that are representative of current operation of the facility and of biological conditions at the site.

ESP must also document the current impingement mortality and entrainment of all life stages of fish, shellfish, and protected species and provide an estimate of impingement mortality and entrainment to be used as the "calculation baseline." See 40 CFR 125.95(b)(3)(iii). This may include historical data representative of the current operation of the facility and of biological conditions at the site. Impingement mortality and entrainment samples to support the calculations must be collected during periods of representative operational flows for the cooling water intake structure, and the flows associated with the samples must be documented.

ESP expects to submit, within the PIC document, justification for using the historical and representative impurgement and entrainment data as well as new data to be collected. ESP is still evaluating how to most efficiently and reliably collect new representative data, but expects that new entrainment data will likely be collected for approximately one year. New data collected will not commence until the Board has approved ESP's PIC and new sampling plan (40 CFR 125.95(b)(t)(iv)), which, as explained above, is expected to be submitted by August 1, 2005. Therefore, because the Board has 60 days to respond to the PIC and may ask for more information or clarification, the earliest likely date the new entrainment data collection period could commence is approximately the beginning of calcular year 2006, and likely concluding in early 2007.

### Design and Construction Technology Plan

Another analysis that must be provided is the Design and Construction Technology Plan. See 40 CFR 125.95(b)(4). If ESP decides to use design and construction technologies and/or operational measures to comply with the Phase II rule, a plan must be submitted that provides the capacity utilization rate for the two individual intake structures at ESGS and provide supporting data (including the average annual not generation of the facility in

MWh) measured over a five-year period (if available) of representative operating conditions and the total not capacity of the facility in MW, along with the underlying calculations. The plan must explain the technologies and/or operational measures that ESGS has in place and/or have selected to meet the requirements of the rule.

This Design and Construction Technology Plan must contain a large amount of information, as described in 40 CFR 125.95(b)(4)(A)-(D). This information includes (A) a partative description of the design and operation of all design and construction technologies and/or operational measures, including tish handling and tetoro systems, and information that demonstrates the efficacy of the technologies and/or operational measures; (B) a harrative description of the design and operation of all design and construction technologies and/or operational measures and information that demonstrates the efficacy of the technologies and/or operational measures for entrainment; (C) calculations of the reduction in impingement mortality and entrainment of all life stages of fish and shellfish that would be achieved by the technologies and/or operational measures we have selected: and (D) design and engineering calculations, drawings, and estimates prepared by a qualified professional to support the descriptions described shove.

# Technology Installation and Operation Plan (TIOP)

Assuming ESP decides that the best way to comply with the Phase II rule is to use design and construction technologies and/or operational measures, in whole or in part, we must submit to you the following information, in accordance with 40 CFR 125.95(b)(4)(ii): (A) A schedule for the installation and maintenance of any new design and construction technologies: (B) a list of operational and other parameters to be menitored and the location and frequency that we will monitor them; (C) a list of activities we will undertake to ensure to the degree practicable the officacy of installed design and construction technologies and operational measures and our schedule for implementing them; (D) a schedule and methodology for assessing the officacy of any installed design. and construction technologies and operational measures in meeting applicable performance standards or site-specific requirements, including an "adaptive management" plan? for revising design and construction technologies, operational measures, operation. and maintenance requirements, and/or monitoring requirements in the event the assessment indicates that applicable performance or site-specific requirements are not being met; and (E) if f(SP chooses the compliance alternative in (25,94(g)(4) (wedgewire screens or a technology approved by the state), documentation that the appropriate site conditions described in 125.99(a) or (b) exist at our facility.

### Restoration Plan

If ESP determines that restoration measures are the best method to comply with the new rule, in whole or in part, then a Restoration Plan must be submitted in the CDS. This plan must include the information described in 40 CFR 125.95(h)(5). It must include a plan using an adaptive management method for implementing, maintaining, and demonstrating the efficacy of the restoration measures that are selected and for determining the extent to which the restoration measures, or the restoration measures in combination with design and construction technologies and operational measures, have met the applicable performance standards.

### Site-Specific Requirements

If ESP determines that site-specific requirements are appropriate because the cost of complying with the Phase II rule will be "significantly greater" than either the cost that EPA considered in its rulemaking or the benefits of complying with the rule, then ESP will have to submit the information described in 40 CFR 125.95(b)(6). This includes a Comprehensive Cost Evaluation Study and, for the cost-benefit analysis, a Benefits Evaluation Study. ESP must also include a Site-Specific Technology Plan describing and justifying the site-specific requirements.

### Verification Monitoring Plan

Finally, ESP must prepare a Verification Monitoring Plan as part of a complete CDS. See 40 CFR 125.95(b)(7). This is a plan to conduct, at a minimum, two years of monitoring to verify the full-scale performance of the proposed or already implemented technologies and/or operational measures.

### PIC and CDS Schedule

The first official submittal (besides this request for a schedule) that ESP will make to the Board in compliance with the Phase II 316(b) regulation will be the PIC. For the reasons explained above, ESP proposes to submit a comprehensive PIC for the Board's review and approval by August 1, 2005. ESP asks that the Board either approve the PIC or advise us of any needed changes within 60 days as described in Sec 40 CFR 125.95(a)(1), 125.95(b)(1).

Because ESP plans to collect substantial new information as part of the expected PIC, and since the new data collection is not likely to begin until after the Board approves the PIC (approximately early 2006), it is unlikely that the information needed to commence the majority of the sections of the CDS (including the Design and Construction Technology Plan, the Technology Installation and Operation Plan, the Restoration Plan (if applicable), the Site Specific Requirements (if applicable), and the Verification

Page 7 September 23, 2004

Monitoring Plan) will be available until late 2006 or early 2007 when the data collection is complete or nearly complete.

Due to the step by step process by which the data must be collected, processed, evaluated, and then turned into a detailed plan of action to achieve the new Phase II 316(b) standards, ESP does not believe a comprehensive CDS can be submitted earlier than January 7, 2008. It is for these important reasons that ESP believes the most expeditious schedule possible for submittal of a comprehensive CDS is by January 7, 2008.

### Conclusion.

Collecting, generating, compiling, and analyzing the large amount of information required by the Phase II 316(b) rule will require a substantial effort. ESP will have to both collect and review already-existing data on the plant and the source waterbody, and we may have to generate significant new biological information.

Because the Phase II rule is new and untried, we foresee the need to coordinate closely with your department as we collect the necessary information, analyze it, and determine what combination of technology, operational measures, or restoration measures will best meet the Phase II rule for ESGS. ESP hopes your staff will be available to consult with us throughout this schedule as we complete these efforts.

For the above reasons, we request that we be allowed until January 7, 2008, to submit the information required for a permit application by the Phase II Rule, 40 CFR Part 125 Subpart J.

Sincerely,

El Segundo Power, LLC

By: NRG El Segundo Operations Inc.

lt's Authorized Agent

Audur Aaberg

Regional Plant Manager